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# 1. Overview of Balaswecha

The primary objective of BalaSwecha is to bridge the growing digital divide in education between privileged and underprivileged in India. Schools for the underprivileged in India, for example the government schools and government aided schools, face a lot of problems including lack of continuous electricity, infrastructure and personnel.

To introduce computer based learning at the school level for children studying in government schools and other schools for the under-privileged. Frugal innovation, using Open Hardware and Free Software technologies, will be the plank on which computer aided learning will be delivered. Specialised hardware and software (BalaSwecha) will be used for this purpose.

Balaswecha has more than **160 simulations / applications** which are mapped to state syllabus.

Teachers can also create multimedia content for students using tools like **Openshot** video editor, **Audacity** audio editor, **Ink-scape** to edit / create the images.

**Mindmapping tools** will help the teachers to create class plans. In the browser you can directly download **video & audio** from youtube.

**Support system** - Swecha has a huge volunteer base across Telangana & Andhra Pradesh.

**Localization** - custom solutions like teachers after using balaswecha they asked if we can create application in biology as well. That's when we came up with cell structure. It was teacher's idea. Along with that teachers wanted to conduct quiz for students. In future if anyone came up with a new idea we are happy to implemet that change in the balaswecha operating system.

# 2. Exploring Desktop (UI)

# How to Start Applications



In addition to searching for applications you can search for music / videos / photos by choosing respective category.

# System Settings



### System Settings > Personal



### Appearance

Behavior of the screen is about appearance of icons or menu on the screen, those can be hidden with the following settings.

Appearance		Behavior
Settings Appearance		benavior
ook Behavior		
Auto-hide the Launcher The launcher will reveal when moving the pointer to the def	ined hot spot.	OFF
Reveal location:		
<ul> <li>Left side</li> </ul>		
Top left corner		
Reveal sensitivity Low	High	
Enable workspaces	☐ Add show desktop icon to the launcher	
how the menus for a window		
In the menu bar	Sector Appearance	
<ul> <li>In the window's title bar</li> </ul>	All Settings Appearance	
Restore Behavior Settings	Look Behavior	
	Background	Wallpapers 💌
	the second se	S Statement
	baloswecho	
	Current backaround (2560	(× 1600)
	Theme	Ambiance (default)

### **Brightness & Lock**

Brightness of the screen and screen timeout sessions can be set in this option.

Brightness & Lock     Settings Brightness & Lock	
urn screen off when inactive for	5 minutes 💌
ock	
ON	
Lock screen after:	Screen turns off 🔻
Cock screen after:	Screen turns off waking from suspend

## Language Support

🖻 🗉 Language Support	😣 🖱 🗉 Language Support
anguage Regional Formats	Language Regional Formats
anguage for menus and windows:	Display numbers, dates and currency amounts in the usual format for:
English (United States)	English (India)
English	Changes take effect pext time you log in
English (Australia)	
Inglish (Canada)	
English (United Kingdom)	Apply System-Wide
orag languages to arrange them in order of preference. hanges take effect next time you log in.	Use the same format choice for startup and the login screen.
Apply System-Wide	
se the same language choices for startup and the login screen.	Example
	Number: 12,34,567.89
Install / Remove Languages	Date: Wednesday 25 May 2016 12:12:16 PM IST
eyboard input method system: IBus 🔻	Currency: ₹ 20,457.99
elp C	lose (Help) Close

# **Online Accounts**

This option allows us to see/add/remove online accounts just as we do for our mobile phone.

😣 🖨 Online Accounts		
All Settings Online Accounts		
+ Add account	Show accounts that integrate with: All applications	▼
	Facebook	
	•• Flickr	
	Google Includes Gmail, Google Docs, Google+, YouTube and Picasa	
	Vitter	
	ам	
	👔 Salut	
	Jabber	
		Legal notice

#### Security & Privacy

The name itself tells us that this option is about security and privacy settings based on our requirement



#### Text Entry : How to add another language 🔃 🖪 💽 🜒 11:05 AM 🔱 • En English (US) 🖁 apple (m17n) Click on En button new to battery symbol Character Map Keyboard Layout Chart You'll find input source that is currently in use, to add more Text Entry Settings... 📡 language click on + Button ( circled ) Text Entry 😣 💷 Choose an input source Input sources to use: Switch to next source using: Select an input source to add English (US) Super+Space Switch to previous source using: Telugu (apple (m17n)) Shift+Super+Space Telugu (inscript (m17n)) Telugu (itrans (m17n)) O Use the same source for all windows Telugu (KaGaPa phonetic) Allow different sources for each window Telugu (pothana (m17n)) New windows use the default source Telugu (rts (m17n)) New windows use the current source Show input candidates: Vertically 🔻 Using custom font: Sans 10 ~ ~ •3 telugu Show current input source in the menu bar Keyboard Settings... Cancel Add Search for the desired language for example Telugu. Simply click add once make choice of a language. Input sources to use: English (US) You'll find your language in the list of input sources.

### System Settings > Hardware



#### Bluetooth

We can add/remove bluetooth devices here

😸 🖨 Bluetooth	
All Settings Bluetooth	
Bluetooth ON	Visibility of "ubuntu-0" ON
Devices innnyOne SONY DVD HOME THEA G GT-18552 GT-18552 GT-185750	
+ -     Show Bluetooth status in the menu bar	

# Displays

It is used to switch between displays of the system & screen when connected to the projector,we call it as mirror displays.

😣 🖨 Displays	Se Displays
All Settings Displays	All Settings Displays
tirrored Displays	Built-in Display Dell Inc. 24*
Mirror displays (Note: may limit resolution options)	Mirror displays (Note: may limit resolution options)
Mirrored Displays OFF General options	Built-in Display ON General options
Resolution 1024 x 768 (4:3) 💌 Launcher placement All displays 💌	Resolution 1366 x 768 (16:9) 🔻 Launcher placement All displays 💌
Rotation Normal   Sticky edges ON	Rotation Normal    Sticky edges ON
Scale for menu and title bars: Scale all window contents to match:	Scale for menu and title bars: Scale all window contents to match:
Display with largest controls 💌	Display with largest controls
Detect Displays Apply	Detect Displays Apply

# Keyboard

🤗 🖨 Keyboard	
All Settings Keyboard	
Typing Shortcuts	
Repeat Keys	
✓ Key presses repeat when key is held down	
Delay: Short	
Cursor Blinking	
🗹 Cursor blinks in text fields	
Speed: Slow	Fast
Text Entry	

Keyboard All Settings Keyboa	rd	_
Typing Shortcuts		
Launchers Navigation Screenshots Sound and Media System Typing Universal Access	Key to show the HUD Launch help browser Launch calculator Launch email client Launch terminal Launch web browser Home folder	Alt L Disabled Calculator Mail Ctrl+Alt+T WWW Explorer
Custom Shortcuts	tick the row and hold down the new keys or press Backspace to clear.	Search

# Mouse & Touchpad

S Mouse & Touchpad All Settings Mouse & Touchpad		Test Your Settings
General Primary button OLeft ORight Double-click Slow	Fast	
Touchpad       Pointer speed     Slow	Fast	ON
Tap to click 🛛 Natural scrolling		

#### Network

The name itself tells us that this option is about security and privacy settings based on our requirement

#### Wireless Network

Network		
ll Settings Network		Airplane Mode OFF
💎 Wireless	Wireless	
🗩 Wired	✓ twguest	
🛃 Network proxy	twevent	
	twdata	? ▲
		Image: Second
+ -	Use as Hotspot Connect to	Show password      Cancel Conne a Hidden Network

#### Wired Network

😣 🗢 Network		
All Settings Network		Airplane Mode OFF
<ul> <li>♀ Wireless</li> <li>▶ Wired</li> <li>▶ Network proxy</li> </ul>	Wired Cable unplugged Hardware Address 58:20:B1:66:6F:17	
+-	<ul> <li>Network</li> <li>All Settings Network</li> <li>Wireless</li> <li>Wired</li> <li>Network proxy</li> </ul>	Airplane Mode OFF Wired ON Connected - 100 Mb/s Hardware Address 58:20:B1:66:6F:17 IP Address 10.136.0.252 Default Route 10.136.2.252 DNS 10.10.1.110.10.1.2
	+-	Options

#### **Editing Wired Connection**

😣 🖨 🗉 Editing Wired connection 1	😣 🖨 💷 Editing Wired connection 1
Connection name: Wired connection 1	Connection name: Wired connection 1
General Ethernet 802.1x Security IPv4 Settings IPv6 Settings	General Ethernet 802.1x Security IPv4 Settings IPv6 Settings
Device MAC address: 59:20:P1:66:6E:17 (etb0)	Method: Automatic (DHCP)
	Addresses
	Address Netmask Gateway Add
MTU: automatic – + bytes	Delete
	Additional DNS servers:
	Additional search domains:
	DHCP client ID:
	Require IPv4 addressing for this connection to complete
	Routes
Cancel Save	Cancel Save

	On battery power		When plugged in		
Suspend when inactive for	Don't suspend	•	Don't suspend	•	
When power is critically low		•			
ow battery status in the menu bar	When battery is present			•	
arging - fully charged					
ging - fully charged	er is used				

Output volume: 🐠 =		••••	
	Mute 📋 Allow loude	r than 100%	
tput Input Sound Effects Applicat	ions		
ay sound through	Settings for A	analog Output / Amplifier	
Analog Output / No Amplifier Built-in Audio	Balance:		Right
Analog Output / Amplifier Built-in Audio	Fade:		
	Subwoofer:	Rear Q	Front
		Minimum	Maximum
	Mode:	Analog Stereo Output 🔻	
		Test Sound	

## Sound

### Printers

A new printer can be added to access it by clicking on Add button.

Add • C There are no printers configured yet. Add Connected to localhost	😣 🖃 🗉 Printers - localhost	
There are no printers configured yet. Add	🚽 Add 🔻 🧲	Filter: 🔍 🗵
Connected to localhost	There are no printers configured yet. Add	
	Connected to localhost	

Please select name of your Print under Network Printer.

😣 🗆 💷 New Printer	
Select Device	
Devices	Location of the LPD network printer
Enter URI Vetwork Printer Find Network Printer Internet Printing Protocol (ipps) AppSocket/HP JetDirect Internet Printing Protocol (ipp) Internet Printing Protocol (https) Internet Printing Protocol (ipp14) LPD/LPR Host or Printer Windows Printer via SAMBA	Host: Probe Queue:
	Cancel Forward

### System Settings > System



# Backups



### Details

Hardware details of the system can be seen in this option.



### Software & Updates



#### Time & Date

Settings of Time & Date can be done here.



Location: Hyderabad

Set the time: 🔿 Manually 🧿 Automatically from the Internet

Time: 01:19:01 PM - + Date: 2016-05-25 - +

Clock menu settings can be done in this option.

#### **User Accounts**

This option displays the number of accounts existing in this operating systems and its authentication settings can be done hFile Permissions

By right clicking on any required folder, we will find an option called properties. Click on properties and set desired permissions for owner, group and others. Permissions like read, write and edit options can be selected.



#### Installing Apps through Software Centre





# **3. Basic Commands**

ls	Lists directory contents of files and directories.
cd	Change the directory.
pwd	Get the current working directory.
cat	Display the content of any files
ср	Copy files and directories.
mv	Move files and directories.
man	Formats and displays the on-line manual pages.
сleаг	Clear the terminal screen.
mkdir	Creates a directory.
ГM	Remove a file.
rmdir	Remove a directory
diff	Comparison between two files.
find	Search files with respect to different category.
df	Summary of available & used disk space of file system
gzip	Compress the file and reduce the size.
reboot	Restart the system.

**ls** Lists directory contents of files and directories.

balaswecha@balaswecha:~\$ ls Desktop Downloads Music Public tmp Documents examples.desktop Pictures Templates Videos balaswecha@balaswecha:~\$ balaswecha@balaswecha:~\$ ls -a .config .gconf .pki .Xauthority .profile Desktop .gnome2 .xsession-errors .bash\_history .ICEauthority Public .dmrc .xsession-errors.old Documents .shutter .bash\_logout .local Music Downloads Templates .bashrc .cache .electron .npm tmp Videos examples.desktop **Pictures** .compiz balaswecha@balaswecha:~\$ balaswecha@balaswecha:~\$ ls -l total 48 drwxr-xr-x 2 balaswecha balaswecha 4096 Mar 22 18:04 Desktop drwxr-xr-x 2 balaswecha balaswecha 4096 Mar 22 18:04 Documents drwxr-xr-x 2 balaswecha balaswecha 4096 Mar 22 18:04 Downloads -rw-r--r-- 1 balaswecha balaswecha 8980 Mar 22 17:43 examples.desktop drwxr-xr-x 2 balaswecha balaswecha 4096 Mar 22 18:04 Music drwxr-xr-x 2 balaswecha balaswecha 4096 Jun 15 11:16 Pictures drwxr-xr-x 2 balaswecha balaswecha 4096 Mar 22 18:04 Public drwxr-xr-x 2 balaswecha balaswecha 4096 Mar 22 18:04 Templates drwxr-xr-x 2 balaswecha balaswecha 4096 Mar 22 17:43 tmp drwxr-xr-x 2 balaswecha balaswecha 4096 Mar 22 18:04 Videos balaswecha@balaswecha:~\$

**Cd** Change the directory.

balaswecha@balaswecha:~\$ pwd /home/balaswecha balaswecha@balaswecha:~\$ cd sampleDirectory/ balaswecha@balaswecha:~/sampleDirectory\$ pwd /home/balaswecha/sampleDirectory balaswecha@balaswecha:~/sampleDirectory\$ **pwd** Get the current working directory.

balaswecha@balaswecha:~\$ pwd /home/balaswecha balaswecha@balaswecha:~\$

**Cat** Display the content of any files

```
balaswecha@balaswecha:~/Desktop$ ls
sampleTextFile.txt
balaswecha@balaswecha:~/Desktop$ cat sampleTextFile.txt
This is a sample text file.
balaswecha@balaswecha:~/Desktop$
```

**CP** Copy files and directories.

```
balaswecha@balaswecha:~$ ls
Desktop Documents examples.desktop Pictures sourceFile.txt tmp
destinationFolder Downloads Music Public Templates Videos
balaswecha@balaswecha:~$ cp sourceFile.txt destinationFolder/
balaswecha@balaswecha:~$ cd destinationFolder/
balaswecha@balaswecha:~/destinationFolder$ ls
sourceFile.txt
balaswecha@balaswecha:~/destinationFolder$
```



```
balaswecha@balaswecha:~$ cat fileToBeMoved.txt
This file will be moved into another folder.
balaswecha@balaswecha:~$ mv fileToBeMoved.txt destinationFolder/
balaswecha@balaswecha:~$ cd destinationFolder/
balaswecha@balaswecha:~/destinationFolder$ ls
fileToBeMoved.txt
balaswecha@balaswecha:~/destinationFolder$ cat fileToBeMoved.txt
This file will be moved into another folder.
balaswecha@balaswecha:~/destinationFolder$
```

**Man** Formats and displays the on-line manual pages.



### **clear** Clear the terminal screen.

balaswecha@balaswe balaswecha@balaswe Desktop destinationFolder Documents balaswecha@balaswe fileToBeMoved.txt balaswecha@balaswe balaswecha@balaswe	echa:~\$ cd echa:~\$ ls <b>Downloads</b> examples.desktop fileToBeMoved.txt~ echa:~\$ cd destinatio echa:~/destinationFol echa:~/destinationFol echa:~\$ clear	Music Pictures Public nFolder/ der\$ ls der\$ cd	sourceFile.txt Templates tmp	Videos
--	--	---	------------------------------------	--------

balaswecha@balaswecha:~\$

# **mkdir** Creates a directory.

aaaaa	Documents	fileToBeMoved.txt~	Public	sourceFile.txt	Untitled Folder
Desktop	Downloads	Music	sampleDirectory	Templates	Videos
destinationFolder	examples.desktop	Pictures	secondPhasePics	tmp	
balaswecha@balaswe	cha:~\$ mkdir newDi	rectory			
balaswecha@balaswe	cha:~\$ ls				
aaaaa	Documents	fileToBeMoved.txt~	Pictures	secondPhasePics	tmp
Desktop	Downloads	Music	Public	sourceFile.txt	Untitled Folder
destinationFolder	examples.desktop	newDirectory	sampleDirectory	Templates	Videos
balaswecha@balaswe	cha:~\$ cd newDirec	tory/			
balaswecha@balaswe	cha:~/newDirectorv	\$ pwd			
/home/balaswecha/n	ewDirectorv				
halaswecha@halaswe	cha·~/newDirectory	¢			

**FM** Remove a file.

balaswecha@balaswecha:~/sampleDirectory\$ ls
fileToBeRemove.txt
balaswecha@balaswecha:~/sampleDirectory\$ rm fileToBeRemove.txt
balaswecha@balaswecha:~/sampleDirectory\$ ls
balaswecha@balaswecha:~/sampleDirectory\$

## **rmdir** Remove a directory.

balaswecha@balasw Desktop destinationFolder Documents balaswecha@balasw balaswecha@balasw balaswecha@balasw balaswecha@balasw	echa:~\$ ls Downloads emptyDirectory examples.desktop echa:~\$ cd emptyDir echa:~/emptyDirecto echa:~\$ rmdir empty echa:~\$	fileToBeMoved.txt~ Music Pictures rectory/ pry\$ ls pry\$ cd Directory/	Public sourceFile.txt Templates	tmp Videos
--	---	---	---------------------------------------	---------------

# **diff** Comparison between two files.

```
balaswecha@balaswecha:~/sampleDirectory$ ls
sampleFileOne.txt sampleFileTwo.txt
balaswecha@balaswecha:~/sampleDirectory$ cat sampleFileOne.txt
I need to buy apples.
I need to run the laundry.
I need to wash the dog.
I need to get the car detailed.
balaswecha@balaswecha:~/sampleDirectory$ cat sampleFileTwo.txt
I need to buy apples.
I need to do the laundry.
I need to wash the car.
I need to get the dog detailed.
balaswecha@balaswecha:~/sampleDirectory$ diff sampleFileOne.txt sampleFileTwo.txt
2,4c2,4
< I need to run the laundry.
< I need to wash the dog.
< I need to get the car detailed.
> I need to do the laundry.
> I need to wash the car.
> I need to get the dog detailed.
balaswecha@balaswecha:~/sampleDirectory$
```

**find** Search files with respect to different category.

```
balaswecha@balaswecha:~$ find -name sampleFileOne.txt
./sampleDirectory/sampleFileOne.txt
balaswecha@balaswecha:~$ find -iname saMpleFIleTwO.txt
./sampleDirectory/sampleFileTwo.txt
balaswecha@balaswecha:~$ cd sampleDirectory/
balaswecha@balaswecha:~/sampleDirectory$ ls -l
total 8
-rw-rw-r-- 1 balaswecha balaswecha 105 Jun 15 11:49 sampleFileOne.txt
-rw-rw-r-- 1 balaswecha balaswecha 104 Jun 15 11:50 sampleFileTwo.txt
balaswecha@balaswecha:~/sampleDirectory$
```

 ${f df}$  Shows the amount of available disk space being used by file system

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	1980148	4	1980144	1%	/dev
tmpfs	398176	1336	396840	1%	/run
/dev/sda1	476526616	7132820	445164576	2%	1
none	4	0	4	0%	/sys/fs/cgrou
none	5120	0	5120	0%	/run/lock
none	1990864	188	1990676	1%	/run/shm
none	102400	76	102324	1%	/run/user

#### **gZip** Compress the file and reduce the size.

```
balaswecha@balaswecha:~/sampleDirectory$ ls
sampleFileOne.txt sampleFileTwo.txt
balaswecha@balaswecha:~/sampleDirectory$ gzip sampleFileTwo.txt
balaswecha@balaswecha:~/sampleDirectory$ ls
sampleFileOne.txt sampleFileTwo.txt.gz
balaswecha@balaswecha:~/sampleDirectory$ ls
sampleFileOne.txt sampleDirectory$ ls
sampleFileOne.txt sampleDirectory$ ls
sampleFileOne.txt sampleFileTwo.txt
balaswecha@balaswecha:~/sampleDirectory$ ls
sampleFileOne.txt sampleFileTwo.txt
```

#### **reboot** Restart the system.

balaswecha@balaswecha:~/sampleDirectory\$ sudo reboot

balaswecha@balaswecha:~/sampleDirectory\$ sudo reboot
[sudo] password for balaswecha:

22

### 3.1 Installing Apps

1. How to install applications through command line

- 1.1 apt-get install
- 1.2 apt-get update
- 1.3 apt-get -f install
- 1.4 apt-cache search
- 2. How to install applications through PPA
- 3. How to solve dependency issues

balaswecha@balaswecha:~\$ sudo apt-get install vlc Reading package lists... Done Building dependency tree Reading state information... Done The following extra packages will be installed: libbasicusageenvironment0 libcddb2 libchromaprint0 libcrystalhd3 libdirac-encoder0 libdvbpsi8 libebml4 libgnutls28 libgroupsock1 libhogweed2 libkate1 liblivemedia23 libmatroska6 libproxy-tools libresid-builder0c2a libsidplay2 libssh2-1 libtar0 libupnp6 libusageenvironment1 libvlc5 libvlccore7 libxcb-composite0 libzvbi-common libzvbi0 vlc-data vlc-nox vlc-plugin-notify vlc-plugin-pulse Suggested packages: libchromaprint-tools python-acoustid firmware-crystalhd gnutls-bin videolan-doc Recommended packages: libdvdcss2 The following NEW packages will be installed: libbasicusageenvironment0 libcddb2 libchromaprint0 libcrystalhd3 libdirac-encoder0 libdvbpsi8 libebml4 libgnutls28 libgroupsock1 libhogweed2 libkate1 liblivemedia23 libmatroska6 libproxy-tools libresid-builder0c2a libsidplay2 libssh2-1 libtar0 libupnp6 libusageenvironment1 libvlc5 libvlccore7 libxcb-composite0 libzvbi-common libzvbi0 vlc vlc-data vlc-nox vlc-plugin-notify vlc-plugin-pulse 0 upgraded, 30 newly installed, 0 to remove and 167 not upgraded. Need to get 10.7 MB of archives. After this operation, 52.0 MB of additional disk space will be used. Do you want to continue? [Y/n] n Abort. balaswecha@balaswecha:~\$ balaswecha@balaswecha:~\$ sudo apt-get install vlc Reading package lists... Done Building dependency tree Reading state information... Done

# 4. File System Overview

/bin	basic programs (Programs that are absolutely needed, shell & commands only)
/boot	initialization files (Required to actually boot your computer)
/dev	device files (Describe physical stuff like hard disks and partitions)
/etc	configuration files
/home	users' home directories
/lib	libraries (collections of data & functions) for sytem bootand running
	system programs
/media	mount points for removable media
/mnt	mount points (For system admins who need to temporarily mount a filesystem)
/opt	third-party programs
/ргос	proc filesystem (Describe processes and status info, not stored on disk)
/root	system administrator's files
/sbin	basic administration programs (Like bin, but only usable by administrators)
/srv	service-specific files
/sys	sys file system (Similar to proc, stored in memory based filesystem: tempfs)
/tmp	temporary files (Files kept only a short time depending on system policy,
	often in tempfs)
/usr	users' programs (Another bin, lib, sbin, plus local, share, src, and more)
/var	variable data preserved between reboots

# 5. File Permissions

#### **Permission Groups**

**Owner** - The Owner permissions apply only the owner of the file or directory, they will not impact the actions of other users.

**Group** - The Group permissions apply only to the group that has been assigned to the file or directory, they will not affect the actions of other users.

**All users** - The All Users permissions apply to all other users on the system, this is the permission group that you want to watch the most.

### **Permissions Type**

Read - The Read permission refers to a user's capability to read the contents of the file.
Write - The Write permissions refer to a user's capability to write or modify a file or directory.
Execute- The Execute permission affects a user's capability to execute a file or view the contents of a directory.

# **Defining Permissions**

The Permission Groups used are:	The Permission Types that are used are:
u - Owner	r - Read
g - Group	w - Write
o - Others   [a - All Users]	x - Execute

The potential Assignment Operators are **+ (plus)** and **- (minus)**, these are used to tell the system whether to add or remove the specific permissions.

Group:	balaswecha 🔻	
Access:	Access files	•
Others		
Access:	Access files	•
Change Pe	rmissions for Enclosed	Files

Music Properties

### File Permissions Example

By right clicking on any required folder, we will find an option called properties. Click on properties and set desired permissions for owner, group and others. Permissions like read, write & edit options can be selected.

### Execute a script file

- Create a simple file with extension sh.
- Check permission of that file.
- Give execute permission of that file.
- Execute this file.

#### Switching between UI and text terminal

When the GUI stuck, then we need to switch into text terminal to get control back.



#### Superuser

The superuser is a special user account used for system administration. The user group administrator consists of non-root users who are allowed root privileges via the command "**sudo**".

### **Hidden Files**

Hidden files names start with .

- Go to home and press ctrl+h to show all hidden files.
- In terminal use command "Is -a" to show all files including hidden files.





# **6. Reporting Errors To Developers**

Create an account on https://code.swecha.org/ to report any error in BalaSwecha OS.

GitLab	Projects	Search	Q 🔑 🌲 🕂 🕩		
Projects	Signed in successfully.				
🜲 Todos 0	Your Projects Starred Projects Explore Projects	Filter by name	Last updated 👻 🕇 New Project		
🔁 Activity	BalaSwecha / Balaswecha-Support This project is created to track issues				
<ul><li>Milestones</li><li>Issues</li></ul>	C BalaSwecha / cell-structure		<b>★</b> 0		
Merge Requests 0	E BalaSwecha / electrolysis		<b>★</b> 0 <b>②</b>		
<ul> <li>Snippets</li> <li>Help</li> </ul>	P BalaSwecha / PencilBox-App		<b>★</b> 0 Ø		
💄 Profile Settings	W BalaSwecha / Website		<b>★</b> 0 <b></b>		
	P BalaSwecha / PencilBox-AppContainer WebKit Container for loading PencilBox App and launching apps from it		<b>★</b> 0 Ø		
	E BalaSwecha / ElementBuilder		★0 <b>@</b>		
nikhil	W BalaSwecha / WeightAndMass_HTML		★0 ©		
<	D BalaSwecha / Density		★0 @		

#### 1. Click on 'Balaswecha-Support'

	GitLab		BalaSwecha / Balaswecha-Support 🗸 This project Search Q 🖋 🌲	+ 🕩			
	Go to group		*	<b>Q</b> ~			
	Project		В				
28	Activity						
ළු	Files		Balaswecha-Support 🥹				
ອ	Commits		This project is created to track issues				
ŝ.	Pipelines	0	Star 0 li Fork 0				
&	Builds	0					
	Graphs		SSH - git@code.swecha.org:balaswecha/Balaswecha-Supp				
Ø	Milestones						
0	Issues	9	2 commits 1 branch 0 tags 150 KB Add Changelog Add License Add Contribution guide				
	Merge Requests	0					
*	Members		2d863297 Edited readme file for more details · 6 days ago by 🌞 Bhuvan Krishna				
۲	Labels Balaswecha Support 🖋						
đ	nikhil		Scope This project is provide to the kull the insure faced upper of Palaguagha. The idea is to give a freehand to all the upper of Palaguagha to report back any	andall			
	<		ins project is create to track an the issues faced users of balaswecha. The idea is to give a freehand to all the users of balaswecha to report back any issues they face.	and att			
_							

2. Click on **'Issues'** to see existing issues.

#### Note : Please close the issue once it is resolved.



#### 3. Click on 'New Issue' button to report your issue.

	GitLab		BalaSwecha / Balas	wecha-Support 🗸 · Issues	This project Search	A + ⊕
	Go to group		New Issue			
	Project		Title			
<b>න</b> අප	Activity Files		Description	Write Preview		Go full screen
๖	Commits			Write a comment or drag your files here		
Ŷ	Pipelines	0				
&	Builds	0				4
	Graphs			Styling with Markdown is supported		🚡 Attach a file
Ø	Milestones			This issue is confidential and should only be visible to te	am members	
0	lssues	9				
10	Merge Requests	0	Assignee	Select assignee - Assign to me		
쓭	Members		Milestone	Select milestone	tone	
۲	Labels					
8	Wiki		Labels	No labels yet. Create new label		
	nikhil		Submit issue			Cancel
	<					

4. Add Title, Description and Attach a screenshot of your issue and click 'Submit Issue'

# 7. Finding solutions online

### Important links

http://askubuntu.com/ https://wiki.ubuntu.com/ https://help.ubuntu.com

Since Bala Swecha is based on ubuntu most of the system related issue can be solved by solutions for ubuntu. The following issues are commonly known which can be solved by checking out the links. For Example:

#### HP all-in-one printers

In this link you will find various methods of adding a HP all in one to your system. https://help.ubuntu.com/community/HpAllInOne

#### **Inkscape Tutorial**

https://inkscape.org/en/doc/basic/tutorial-basic.html https://www.unixmen.com/31-best-tutorials-of-inkscape/

#### **Kdenlive Tutorial**

https://userbase.kde.org/Kdenlive/Manual/QuickStart