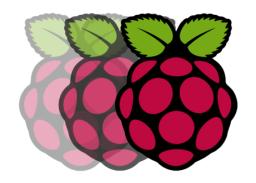


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Lesson 1: Getting Started with Raspberry Pi

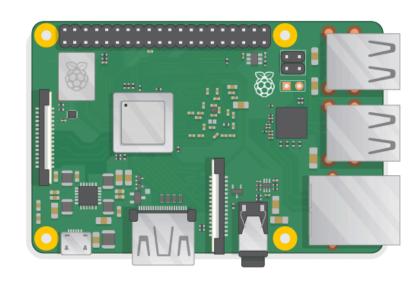
- Basic Requirement
- What is Raspberry Pi?
- © Connecting It Up
- First Time Configuration
- Exploring The Debian Desktop
- Wireless Connection Setup
- Shutdown Raspberry Pi
- Playing Games on Raspberry Pi





## Basic Requirements

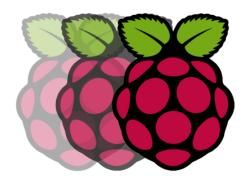
Lesson 1: Getting Started with Raspberry Pi



#### Parts Required:

- Raspberry Pi
- Micro SD Card with NOOBS
- USB Keyboard and Mouse
- HDMI to VGA Converter
- 5V, 2.5A Adapter with micro USB Cable



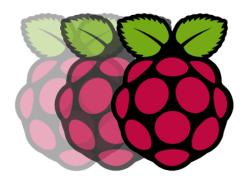


Lesson 1: Getting Started with Raspberry Pi

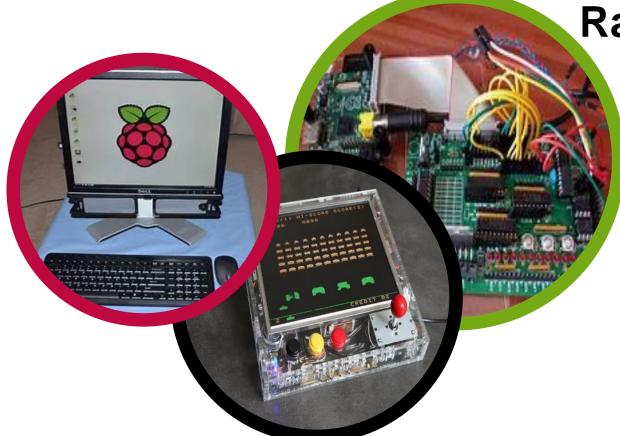


- Pocket-sized 'computer'
- Ideal to learn and experiment
- Allow creativity to soar





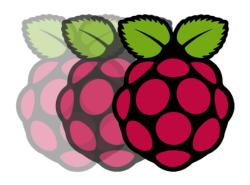
Lesson 1: Getting Started with Raspberry Pi



Raspberry Pi Applications

- General purpose computing
- Learning to program
- Project platform
- Product prototyping
- Media center
- "Bare metal" computer hacking
- Retro gaming





Lesson 1: Getting Started with Raspberry Pi Raspberry Pi Hardware

**GPIO PINS** Sensors, Button, and etc



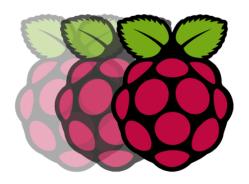
**USB** USB Hub. Keyboard, Mouse

**POWER** microUSB

Network Internet

**HDMI** Display **AUDIO** Sound



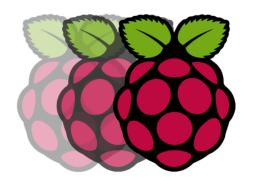


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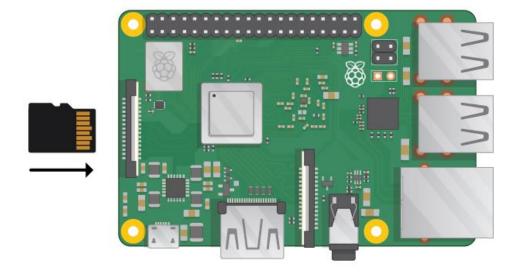
### Raspberry Pi Hardware





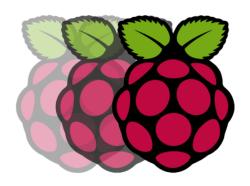


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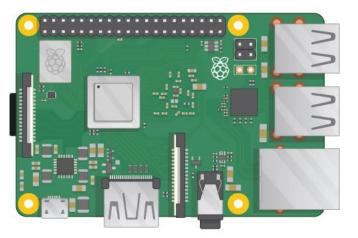


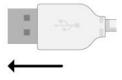
Insert an SD card pre-installed with NOOBS

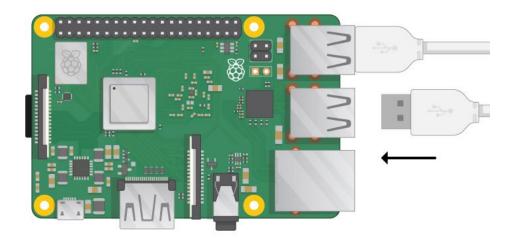




Lesson 1: Getting Started with Raspberry Pi

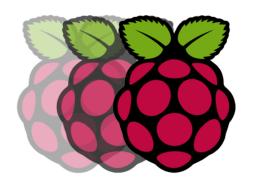




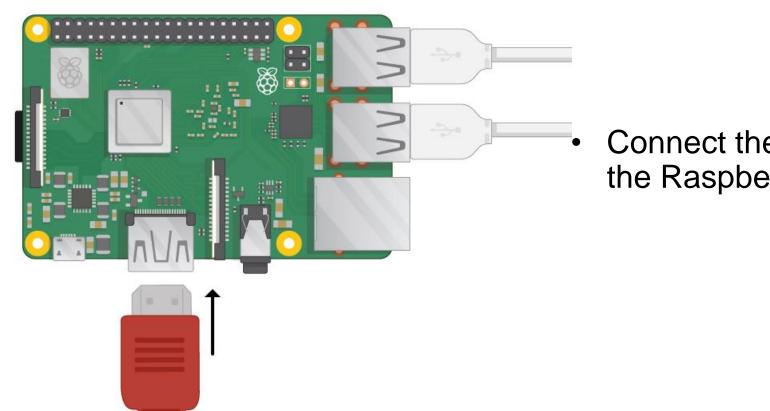


 Connect the USB Keyboard and Mouse



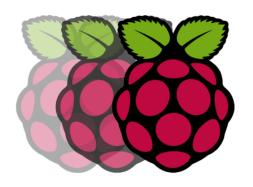


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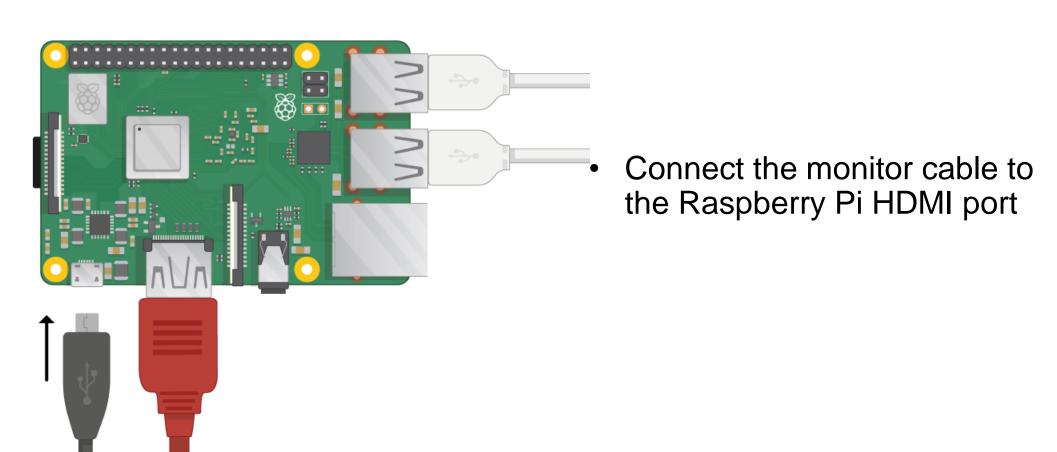


Connect the monitor cable to the Raspberry Pi HDMI port

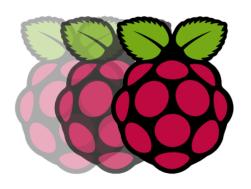




Lesson 1: Getting Started with Raspberry Pi







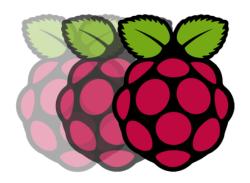
Lesson 1: Getting Started with Raspberry Pi

#### Indication

Label	LED Color	Details
ACT	Green	SD Card Activity
Power	Red	Power

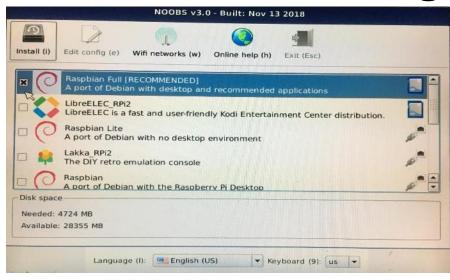


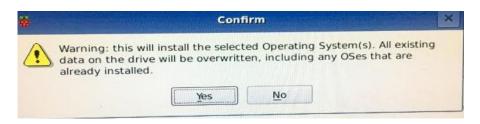




Lesson 1: Getting Started with Raspberry Pi

**Installing Raspbian** 







Select Raspbian Full

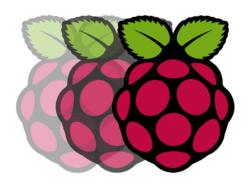


Click **Install** 



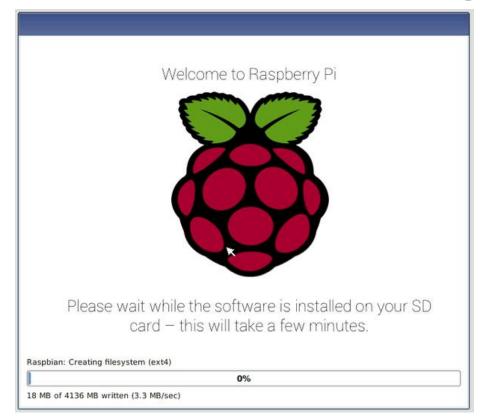
Click Yes

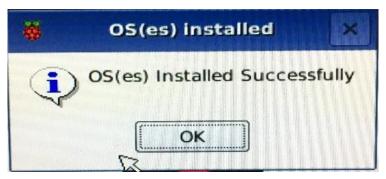




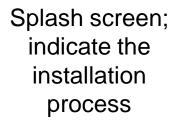
Lesson 1: Getting Started with Raspberry Pi

### **Installing Raspbian**





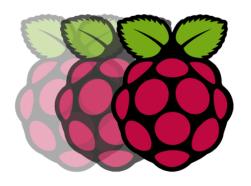






Pop-Up windows once the process of the installation finished





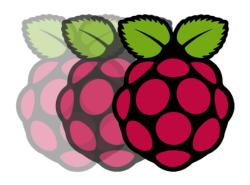
Lesson 1: Getting Started with Raspberry Pi

#### **Personalized Your Pi**









Lesson 1: Getting Started with Raspberry Pi

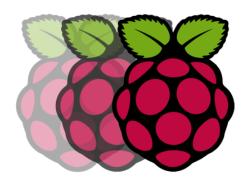
#### **Personalized Your Pi**





Country: **Malaysia**Languange: **en (US)**Timezone: **Kuala Lumpur**Click **Next** 





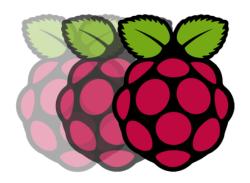
Lesson 1: Getting Started with Raspberry Pi

#### **Personalized Your Pi**



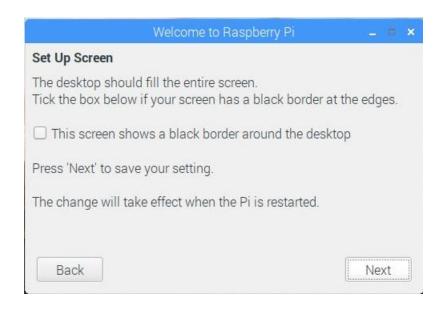






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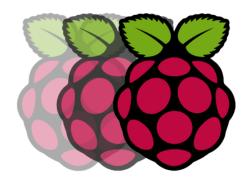
#### **Personalized Your Pi**





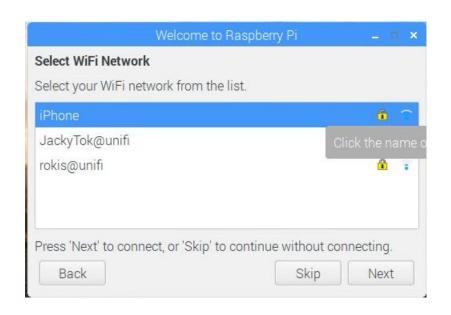
Look to your Display, any black
border exist?
Tick if Yes.
Raspbian will automatically adjust
for you to maximize the display





Lesson 1: Getting Started with Raspberry Pi

#### **Personalized Your Pi**





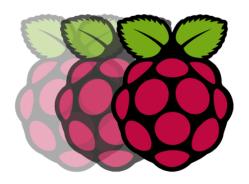
Click on the available WiFi network, and click

Next – if we know the WiFi password.

Else, click Skip.

This this one of way to setup our WiFi/Network.





Lesson 1: Getting Started with Raspberry Pi

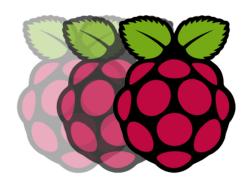
#### **Personalized Your Pi**





If Our Raspberry
Pi connected to
network, click
Next. Else, Skip.





Lesson 1: Getting Started with Raspberry Pi

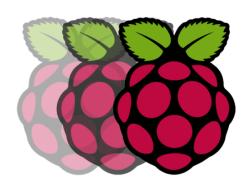
#### **Personalized Your Pi**





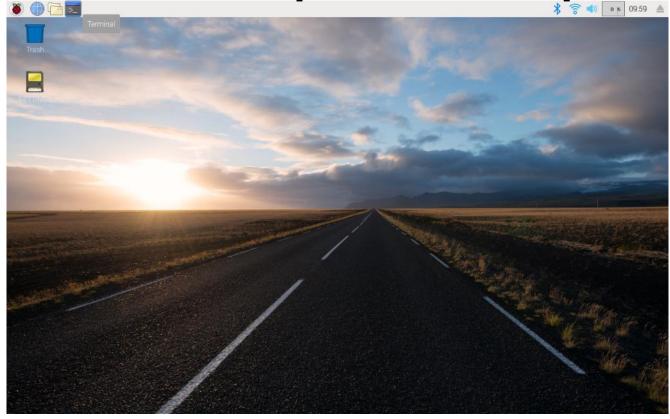
Click **Restart** to make all the changes takes effect.



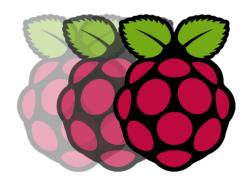


Lesson 1: Getting Started with Raspberry Pi

**Welcome to Raspbian Desktop Mode** 







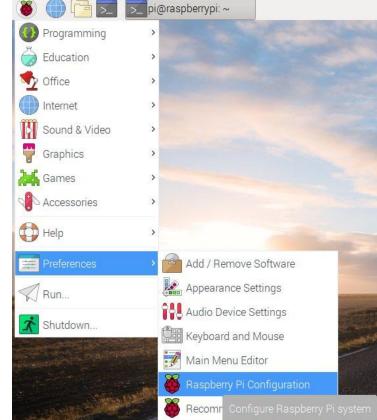
Lesson 1: Getting Started with Raspberry Pi

### Your Pi, and It's Yours



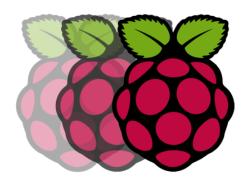
Click on Raspberry Icon











Lesson 1: Getting Started with Raspberry Pi

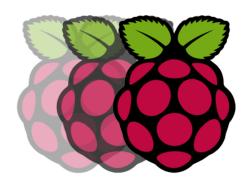
Your Pi, and It's Yours





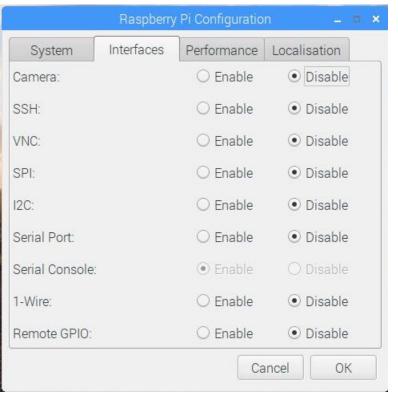
Let's rename your pi name by changing the **Hostname** 





Lesson 1: Getting Started with Raspberry Pi

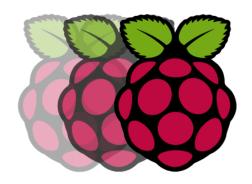
### Your Pi, and It's Yours





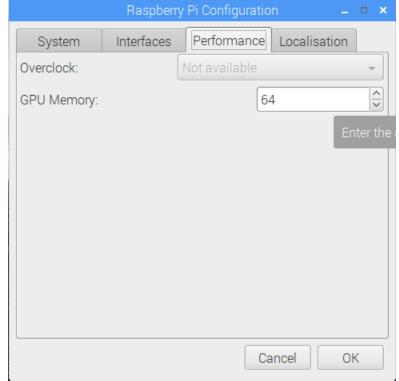
Raspberry allow you to control not only on your system
(Software), also on Interfaces
(Hardware)





Lesson 1: Getting Started with Raspberry Pi

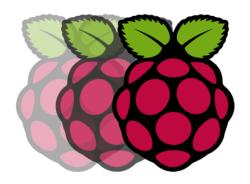
Your Pi, and It's Yours





Overclocking
Improve the
Performance of
your Pi





Lesson 1: Getting Started with Raspberry Pi

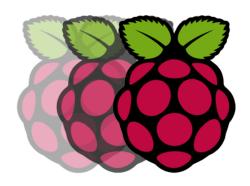
Your Pi, and It's Yours





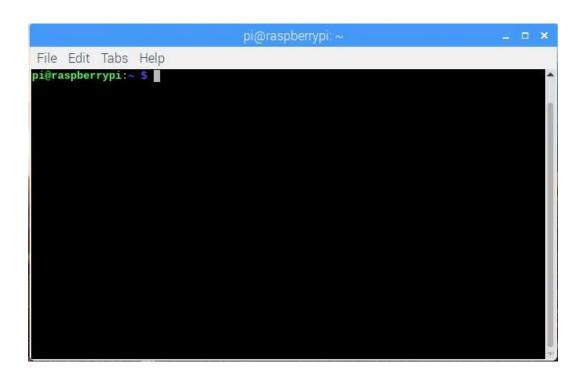
Changes on the Localisation;
Timezone,
Keyboard, and
etc





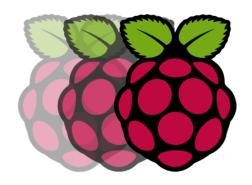
Lesson 1: Getting Started with Raspberry Pi

#### **Terminal**



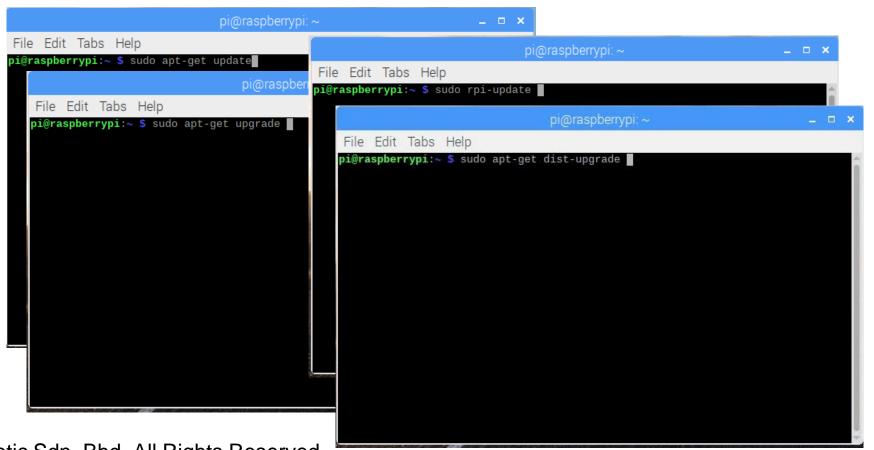






Lesson 1: Getting Started with Raspberry Pi

#### **Terminal**

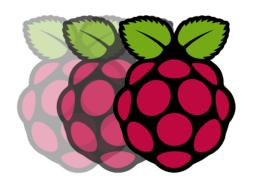




Terminal - run programs, execute scripts, manipulate files, etc.



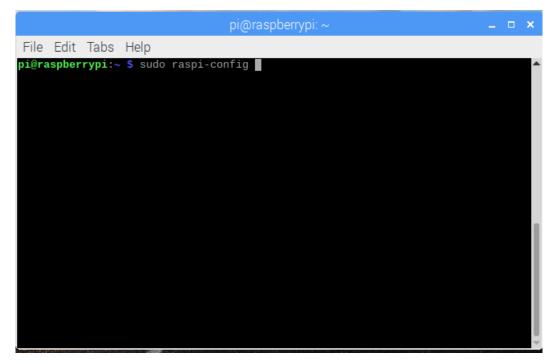
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Lesson 1: Getting Started with Raspberry Pi

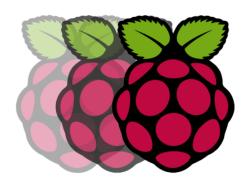
### Using Teminal to Expand SD Card





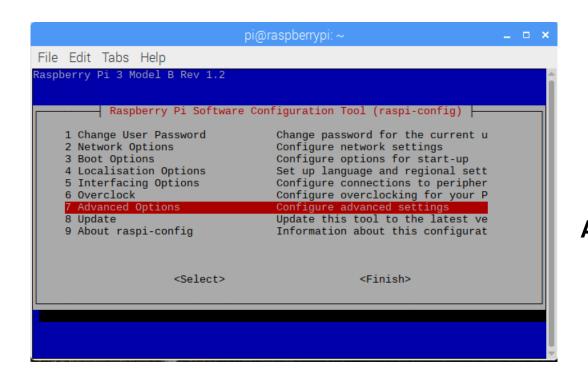






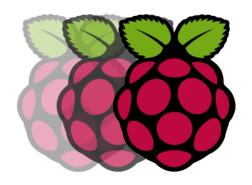
Lesson 1: Getting Started with Raspberry Pi

### Using Teminal to Expand SD Card



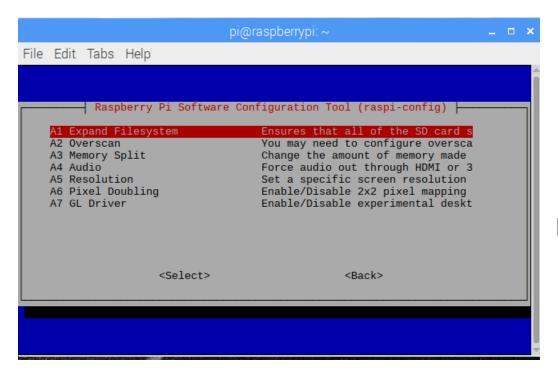






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### Using Teminal to Expand SD Card

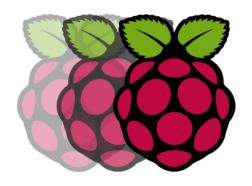




Go the **Expand Filesystem**And

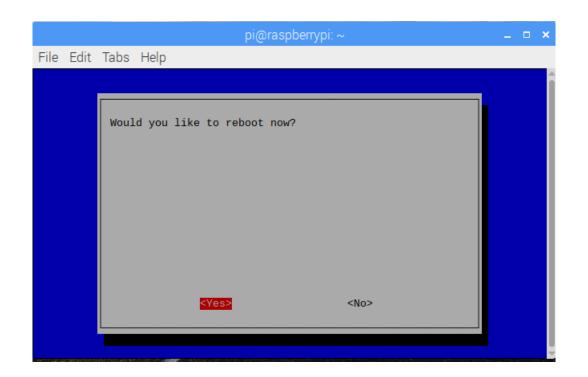
Hit **Enter** 





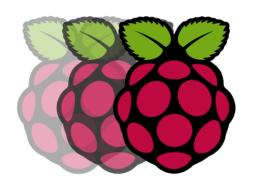
Lesson 1: Getting Started with Raspberry Pi

### **Using Teminal to Expand SD Card**









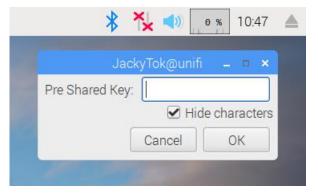
### Wireless Connection Setup

Lesson 1: Getting Started with Raspberry Pi

### **Setting Up Wireless Connection**









Click on the **Network** icon. **Turn On Wi-Fi** 

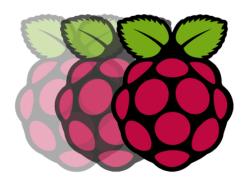


Select and click on preferred available Wi-Fi network



Enter the password





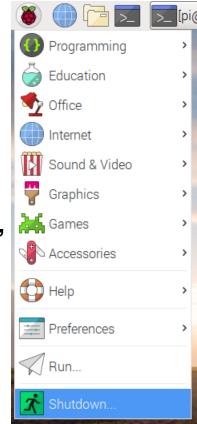
### Shutdown Raspberry Pi

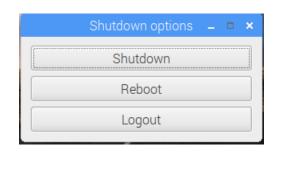
Lesson 1: Getting Started with Raspberry Pi

**Shutting Down Raspberry Pi #1** 



Click Raspberry Icon,
Scroll down
and
click Shutdown

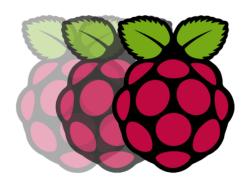






Click either Shutdown, or Reboot

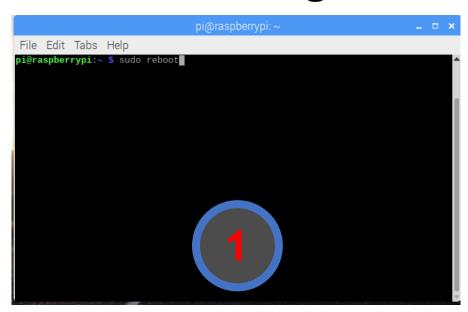




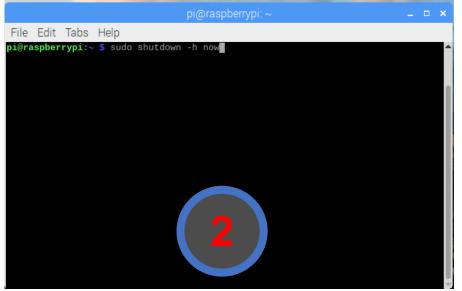
### Shutdown Raspberry Pi

Lesson 1: Getting Started with Raspberry Pi

#### **Shutting Down Raspberry Pi #2**

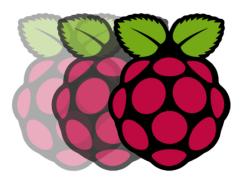


Using **Terminal** and type sudo reboot



Using **Terminal** and type sudo shutdown –h now





### Playing Games on Raspberry Pi

Lesson 1: Getting Started with Raspberry Pi

### **Python Games**

