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## Assignment - 2.

Aim - Study of different operating system for Rasbierry-Pi, understanding the process of OS installation an Raspberry-Pi.

Theory - Introduction 
The Raspherry Pi is a wonderful but pawerful little computer that fits the palm of your hand. The Raspherry Pi has SD and slot for mass starage of will attempt to boot off that device from SD cord when the board is powdered on SV micro.

The rospherry is a very apable minicomputer of moreover is very inexpensive it is available at unbelievable price that you could not resist yourself to buy one, if you technocrat. It comes with 4 USB part that makes it more user friendly Many from the available lits of operating systems, each one of them are segregated based on their applications features of specifications.

# Brief Discussion of operating Systems ->

No matter how good & powerful the hardware of Raspherry Pi is, without an operating system.

Currency Rasphiso is the most popular linux - bused operating System for the Raspheng Pi. Rasphison is an open Source operating System based an Debison which has been modified Specially for the Raseberry Pi.

For a beginers its a good place to start especially II you are Starting with programming and are used to windows based system at it bears some resemblance to windows. This as is real treal to the Python programmer Rusphison is a operating system which proves to be very efficient for the basis operating tequirements with Pi. Rasphison is designed to be easy to use and is the reformended operating system for beginners to start all with their Raspherry Pi.

2 Pidota -

After waiting for a long, Rospherry Pi users one finally getting an optimized version of Fedora, to replace the current Roshian as. The news caused excitement among the Rospher Pi community, who are linearly getting the appartunity to enjoy Fedora on their devices after the previous attempt to introduce Fedora Remix for Pi ended up as a faiture. Coupled with greater speed and most at features of Fedora 18. The current Roshian as which was a temix of open Source Design as this based on Armyo would make way for Pidata. Currently avaitable for download on the Coor website

### Arch Linux -

Arch linux is an excellent chaire for many reasons one of the greatest advanges of the Arch linux distribution is its simplicity in approach and allique This minimizes the amount of 50 cord memory it takes to hard the operating System for your Rosenerry Pi, leaving more soace for everything else you'll be doing. Arch has now finished its transition to system D from the old initscripts.

#### 4 05Mc

ond open source media player based on linux.

Founded in 2014, 09Ma tets you play back media from your local network, assuched Storage and the Internet Osma is the leading media center in terms of features set and community and is based on the leading project.

This Os comes with over 30000 packages from Debian repository.

## 5. RetroPIE

Retto Pie allows you to turn your Rasphelly pi into a tetra-gaming machine Its platform developed on the base of Rasphian Emulation Station. Retto Pie enable you to play your forwarite Areade home - console and classic Pc games with minimum set-up. For technocrat users it also provides a large variety of configuration loops to customize the system as per user need and purpose.

RISC 05 is British operating System originally designed by Alora Computers 11d in Combridge.

England and was lirst teleased in 1987. It was specifically designed to run on the APM chiped. It is tast, compact and ellicient. Ass as is not a version of linux, nor is it any way related to windows and intrestingly was developed by the original APM team. Assect of proceeding the signal of the process of the second application. It includes a browser caued netsural a simple text editor, a scientific catedator, and it also has two software purpose managets.

Parkmon and a Store.

Open website or Paspberry Plany

7. Firefox os

Firefox 05 Caiso known internally as Boot to Geckof 826) is an as which is make associated with being a linux beingle based open source operating system primiting designed for smart phones and tablets computers. It was primarily designed as a community based atternative system utilizing open standards and times applications, Tovascipt and open web April This as is based on Mazina technology. The device is allordable and flexible as it can tun a number of operating system and might therefore be a very Suitable against a network provide an entry level upgrade in network provide an entry level upgrade in network

tinux distribution. It is specially designed for digital forensits and penetration testing. It is maintained and funded by offensive Security Ltd ban Linux pravides many pre-instanced packages with numerous pentration - testing programs. like noop (a part Sanner), wire shork to packet anosyzer). Peccenty Support for IFT touch Screen was added. It you want to instant ban on the Roseberry Pi kit you can download it from their afficial download page, it is freely available there, operating System have make the Roseberry Pi more popular and user friendy one have gone through & different operating system. Each operation has its own features.

Conclusion -

Various as in Ruspherry Pi

# Installing os for Raspberry - Piz

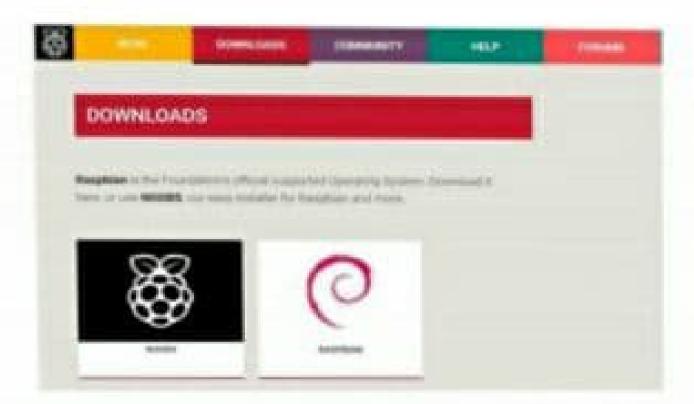
Aim - To understood the os instanction for Pospherry Pi-3

Process of Os installation on Raspherry Ri Board

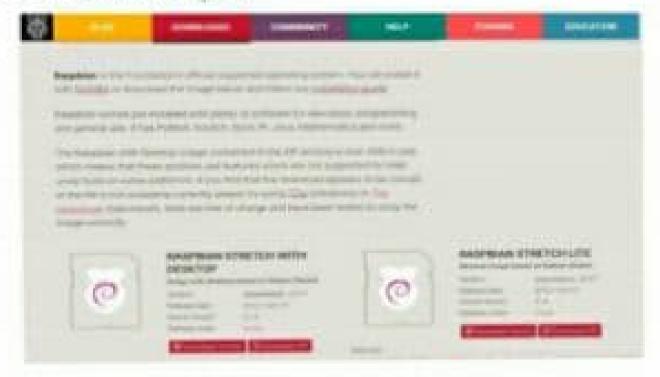
1 open the website www.raspherry.org

2 click on the "Documends" tob.

4 click on the "RASPBIAN" aplian.



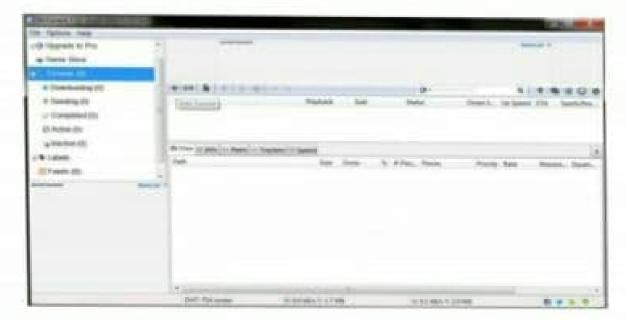
#### Click on the "RASPBIAN" option.



So under this heading tick on Download Torrent oping

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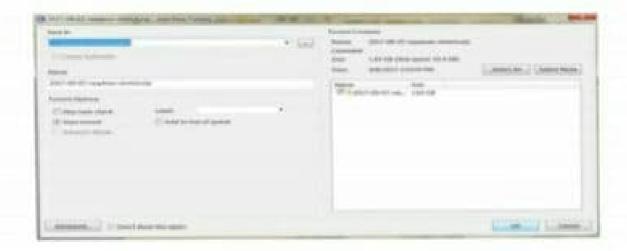
- 6 A "Torrent fire" is download
- file of this towers.
- 9 so download the "Bit Torrent" Soldware and
- to Now open the " Bit Torrent" Sollware



12. Here select the path of downloaded "Torrent file".



13. After selecting the torrent file, following window appears. Here click on OK



Aller completion of this process, we get zip lite named as rasphian-streath zip"

Now we have to write this disk image on 50 and

Here click 'tes' and confirm the overwrite.

Congratuations! Your so cord is ready with your

as to work in Ruspheny Pi-3 board

Tosert Raspherry Piz



- 18. Open the unzipped file in the "Image file" option by selecting the path from the Blue icon. The selected path is shown in the below image.
- 19. Now plug-in the SD card reader having SD card inside it, in the USB port of your PC.
- Ensure that your SD card reader is having the same drive which is shown in the Device option (near the blue icon)



- After ensuring that the "Image file path" and the "Device" are selected correctly, now click Write' button to write the image on the SD card.
- 22. After this the following window appears.



COSVNIP Nashik

