Experiment no :- 2 Aim: - study of different operating system for Raspberry-P. Understanding the process as installation on Raspberry-P. Theory :-Introduction :-The Rospberry Pi is a wonderful but power full little computer that fits the place of your hand Despite of its size it has enough power to sun operating system, home media center, a VPN & a lot morp The Raspherry Pi has a so coud slot for mass storage + will oftenpt to boot of 4 that device from so cord when the board is powered on by SV micro UCB supply-No mollet low good + powerfull the hardware of Rasphen Pi is without an operating system if is just a piece of silicon fibergiass + a few other condition materials O Raspbian :currently, Rosphian is the most popular linux based operating system for the Rasphelly-pi, Rasphian is on open source operating system based on Debian, which has been modified specially for Respherry - Pi For a beginner it's a good place to stee 4 especially if your are steeting with programming + are used to windows based system as it beges some tesembolonce to the windows.

- Didora:

 After waiting for a long, Rospherey Pruses are finally getting an openied version of pidory to replace the current Rasphian as the new occured excitement among the Raspherey Promounity. Who are finally getting apportunity to enjoy pedora on her devices after the preview attempt to introduce pedora Remove for ended up as a failure coupled with greter speed a next of features of pedora 18.
- 3) Arch linux iArch linux is an excellent choice for deasons one of the grefest advantages of the Arch linux distribution is its simplicity in approach & attitude
- OSMC & open source media center I is a free + open source media player based on linux. Founded in 2014, osmo let's you play back media from your local network, affected storage a tree internet asmo is a leading media center in terms of features set + connunity + is based on Kodi project
- BetroPIE:
 Retro Pie allows you to turn your Raspherry Pi into a setrogening machine it's platform developed on the base on Rasphian.

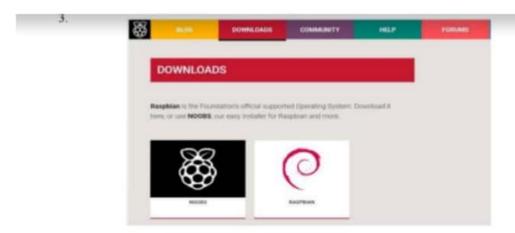
 envilion station, Reto pie enable you to play your favourite

 ando, home-console classic pe games with minimum setup
- @ RISC OS:
 RISC OS is Blitish Ols originally daigned by Acorn comprter

 lid in canbridge england 4 was first released in 1987 It

 was specifically designed to sun at ARM (hiped it is tiest

Compact + efficient. RTS ON is not a version of lingx in
it any way related to window & intertingly was developed by
original ARM team
The state of the s
1 Koli lingx 5-
Kali linux is a Dobion based security auditing linux distributed it is specially designed for digital formsiles + pentration testing. It is mentioned + funded by affecting security. Kali linux provides many pre-installed package with numerous pentration - testing.
Constysion :-
Thus, we have stadied installation for various os in
Raspberry Pi
A CONTRACTOR OF THE PARTY OF TH
Installing as for Respherry - Pi &-
Aim :- To understand as installation for Raspbelly Pi
Process :-
1 open website unu raspherey org.
2 (lick on Download + tab
3- Click on "DASBIAN" option
4 up requires - 'Resphian stretch with disktop". Thick on Dovolant
5. D. "Torket file" is downloaded
8 But actal as is present in zip tire of these Torsent
7 Now open the "Bit Toxent " softweel
Scanned with CamScanned



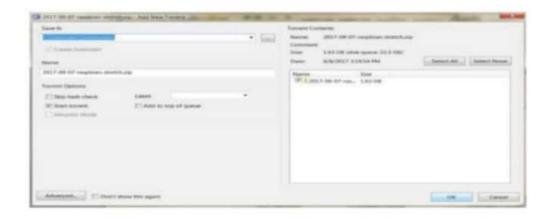
4. Click on the "RASPBIAN" option.





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







- 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.



ESCO NPSNashik

- 23. Here click 'Yes' and Confirm the overwrite
- 24. Image file will be written on SD card.
- 25. After the procedure is completed, it gives "Write Successful" message.
- 26. Congratulations! Your SD card is ready with your OS to work in the Raspberry-Pi-3 board.
- 27. Insert this SD card in Raspberry pi3.

