Practical no: 2

Title: Study of different operating systems for Raspberry-Pi /Beagle board. Understanding the process of OS installation on Raspberry-Pi /Beagle board

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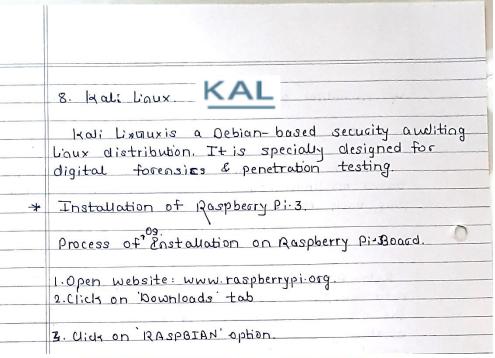
	E310T Practical 2	Aditi Dinesh Mway TE. Comp Div: A Roll no: 02.
	Atm:	
	Study of different Understanding the prod Raspberry-Pi	0.5. for Raspberry-Pi. ess of 0s installation on
0	Theory: Introduction	
	Little computer that for Despite of its size it your O.s. smoothly, ho lot more. The Raspbers mass storage & will	a wonderful but powerful its the polm of your hand has enough power to run me media centre, a VPN 4 a y Pi has a Sp card slot for attempt to boot off that when the board is powered supply.
6	This Raspberry Pi ha	s an Integrated 802:11n wifi 4.1. wifi F Bluetooth to make It also provide Rj45 to
	Brief Discussion of O	3.
	Raspberry Pi is, without of silicon, fibreglass.	od and powerful the hw of ut an 0.3. it is just a piece here are different 0.3. for RISC, 03, Pidora, etc.
	L. Raspbian:	
40	O.S. for the Raspberr	the most popular linux based 1 Pi. Rosphian is an open Debian, which has been for the Rospherry Pi.

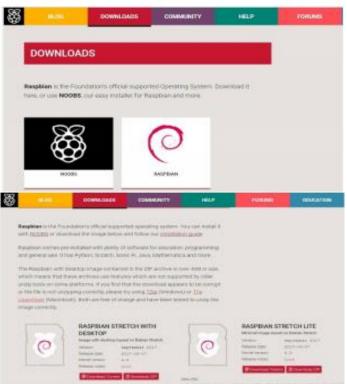


Raspbian is a official 0.5 of Raspberry Pi foundation. It is a version of Debian which is specifully designed 4 optimized for the Raspberry Pi hacdware and the build consist of more than 35,000 Raspbian packages.



	2. Pidora.
	After waiting for long Raspberry Pi users are finally getting an optimized version of Fedora, the Pidora, to replace the current Rasbian os.
	The current Rasbian as, which was a remix of open source Debian as this based on Marie would make way for Pidora, currently available for download on the CDOT website.
	3. Arch Linux. archinux Pa
	Arch Linux is an excellent choice for many reasons. One of the greatest advantage of Arch Linux distribution is its simplicity in approach and attitude. Arch gives you the ability to build your system from the ground
<i>y</i>	up, including only the software you actually need.
	Osma is a tree and open source media player based on Linux. Founded in 2014, Osma lets you play back media player based on Linux.
O	5. Detro PIE
	Retro PIE allow you to your Raspberry Pi into a retro gaming marrine. Its platform developed on the base of Raspbian, Emwarian Station, Retropic enable you to play your favorite Arcade, home-console, & classic PC games with minimum setup.
	6.RISC OS
Ó	RISC was specifically designed to run on the ARM chipset. It is fast, compact and efficient. It includes browser called Netsurf, a simple text editor, a scientific calculator. Bit also has two software managers, powerman and a store.
	7. Firefox OS. Firefox OS
	Firefox 0s is an 0s which is more associated with being a linux kernel-based open-source 0.s. primacily designed for smart phones & tablet
	computers.





4. We require RASPBIAN STRETCH WITH DESKTOP, SO under this heading, Jick on 'Download Torrent' option.

5. A Torrent file is downloaded.

6. But actual Os present in ZIP file of torrent.

7. Using this Torrent file & Bit Torrent' software, we download the ZIP file of Raspbian Os.

8. Download BIT TORRENT slw & install it.

9. Open Bit Torrent Shw.

10. Uick on opt, t under this click on Torrent

11. Here select path of downloaded 'Torrent File'

12. After selecting the torrent file, foll' window

appears. Click Ok.



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



13. Using this 7 zip software, unzip file 'raspbianstrethc.zip'. After this we get required disk img
of Raspbian Os.

14. Now we have to write this img on SD card.

15. To write the os on SD card, we require the slw
'win32 disk imager'. So download this software s
install it.

16. After completion, following window appears.



	17. Open unzipped file in the Img file opt. by selecting the path from blue icon.
-	18. Now plugin Sp card reader having sp coud inside
	it, in the USB port of Pc.
	19. After Russing, that the Image File & Device ace
	selected correctly, now didy write button to
	write image on so card.
	20. After this following window appears.



21. Clida 'Yes' & confirm overwrite.
22. Image file will be return on S.A. cowl.
23. After proceduce is completed, it gives WRITE
SUCCESSFUL MSg.
 24. congrats! Your SD card is ready with your 08 to
work in Raspberry Pi-3 board.
25-Insect SD card in Raspherry Pi-3.



 O.C. Do ble processor consistency (make the course	
26. Do the necessary connections & more the power ON. Your Raspberry Pi-3 stacts & Desktop of Os is shown on screen.	
 Conclusion: Trus, we have studied installation for various as in Raspberry Pi	
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