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## Assignment A3

Title: learnectivity and configuration of Raspboury

Problem Statement:

Study of connectivity and configuration of Raspberry Pil Beagle board circuit with basic peripherals, LFDs, Understanding UPIO and its use in the program.

Rasplery-Pi/Beagle Board.

Software and Hardware Requirements:

Raspberry-Pi/Beagle Board, PC with configuration as fatest version of 64 bit 05, open source Yedora-442, 8 as RAM, 500 4B HDB, 15" Color Monitor, Keyboard, Mouse.

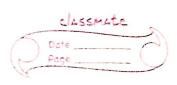
Theory:

raspi-config-

The Raspberry Pi configuration tool in Raspbian, allowing you to easily enable features such as the camera, and to change speath settings such as keyboard layout

config.txt - The Raspberry Pi config file.

Wireless > Lonfiguring your Pi is a wireless access point using the dasp berow Pi 3 and Pi zero wis built wireless connectivity, or a USB wireless dongle.



Audio bonfig => Switch your audio output between HDMI and the 3-5mm jack.

bamera bonfig => Installing and setting up the Rasplerry Pi camera bond.

External Storage honfig >

Localisation -> Setting up your Pi to work in your local language l'timezone

Default fin configuration - lihanging the default fin settings

Device Tree bonfig - Device Trees, overlays and parameters

Kernel kommand Line

VART Configuration. Firmward Warning Icons.

raspi-config is the Raspherry Pi configuration tool willen and maintained by Alex Bradbury It targets Rosphian.

To open the configuration tool simply run the commandsudv easpi-config

Haspi-config aims to provide the functionality to make the most common configuration charges.

This may result in automated edits to 15 vot/config.txt and various standard sinux configuration files



Some options require a reboot to take effect.	
The second of a second of the	
Network Options -	
1) Hostname	
10 Boot Options	
docalisation Options	
bhange locale	
(i) Charge time zone	
(ii) Change keyboard layout	
(vii) Change Wifi Country	
Aslanda cina Abliana	
Interfacing Options—	
1) William	
M SSH	
NNC COL	
(ii) SP1	
W I2C	
(i) Social	
(VID 1 - Wire	
(Mil) Over clock	
10 00 10 0. 1 1 2 1: 0. 2 1 serviced discourse	
These all the listed options provided awaring	
These all the listed options provided during Rasplerry-Pi configuration.	
History Co.	
Advanced options:	
Expanded Filesystem-	2
1 you have installed majoraic noise installed	
filesystem will be expanded autoparting to In mal	
you will need to selvoor the output is to make	L
10.	
Expanded Filisystem- If you have installed Kasplian using NOOBS. The filisystem will be expanded automatically you will need to relieve the Rasplerry of to make this option available.	

Note that there is no confirmation selecting the option begins the position expansion immediately.

This tool provides a straightforward way of doing the initial configuration of the Rasplerous P. Although it can be run at any time, some of the options may have difficulties if you have heavily customized your installation.

bonclusion:

We successfully understood the connectivity of Raspherry Pi circuit with basic peripherals