Name-Rutuja Manoj Kasara class- TE-div-A Roll no- 65.

Assignment - 08

Aim- Write an application using Raspherry-Pil beagle board to control the operation of Chardware simulated traffic signal.

Theory - Attaching the fruitic lights

The low voltage lab traffic

Lights connect to Pi using

four pins one of these needs to

be ground: the other three

being actual GPTO pins used to

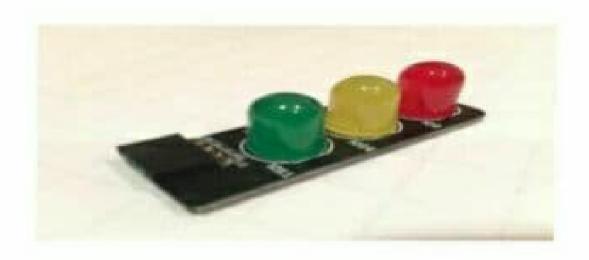
control each of the individual LED's.

Programming the traffic lights ->

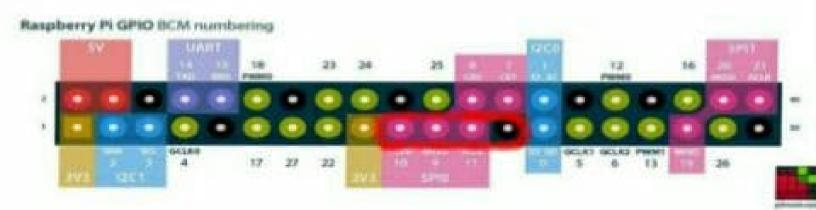
First you need to install a couple of extra software packages needed to allow you download my sample code & to give python access the GPTO pins on the Pi Enter the following at command line.

Sudo opt-get install pythonopi-gpio-git.

गनो संत तथा सदग्र जीने की कहा निखाते हैं।



Before powering up the Pi, attach the traffic lights so that the pins connect to the GPIO pins highlighted in red:



Set UP GPTO Selmode (GPTO BCM) GPTO Selve (9 GPTO CUT) GPIO Selup Cia GPIO OUI) GPIO SCIUP CIL GPTO DUT) THE PARTY OF THE PROPERTY OF THE H Tura of all lights when user ends demo del au lights off (signal frame) GPIO-OCIPUL (9. Fulse) GPJO OUIPUL (10, False) GPIO OCIPUL (11) False) OF I II HAVE GPIO GOIPUT CLEANUPCI Sys exit (o) Signal Signal Coignal STEINT au lights off) when control -c is pressed an interrupt signal STEINT IS SENT This is bundled by an lights all function that switches au the lights off, tidies up the Gpro library and exist cleanly back to the operating system Conclusion -Thus, we have implemented the opplication for truffic signals using Rospherry Pt.