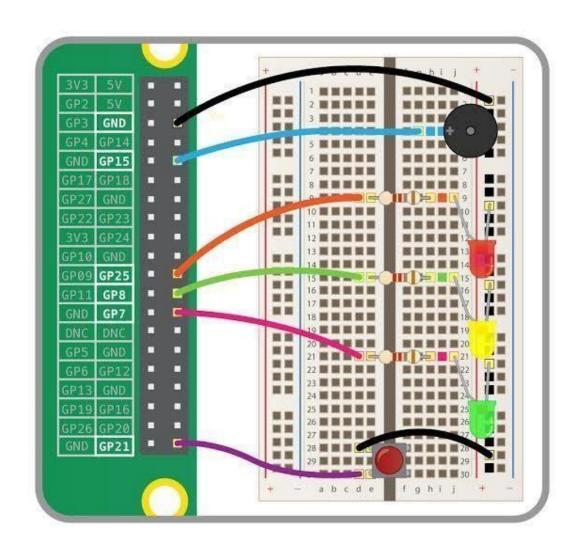
Write a Python Code For Blinked LED And Traffic Lights In Raspberry Pi

Assignment-3

By: R.Bavani 952319104005

Write a code for Blinked LED and Traffic Lights in Raspberry Pi:



Coding for Blinked LED:

Import RPi.GPIO as GPIO # RPi.GPIO can be referred as GPIO from now

```
Import time
ledPin = 22 # pin 22
def setup():
    GPIO.setmode(GPIO.BOARD) # GPIO
Numbering of Pins
GPIO.setup(ledPin, GPIO.OUT) # Set
ledPin as output
    GPIO.output(ledPin, GPIO.LOW) # Set
ledPin to LOW to turn Off the LED
Def loop():
    While True:
         Print 'LED on'
         GPIO.output(ledPin, GPIO.HIGH) #
LED On
         Time.sleep(1.0) # wait 1 sec
         Print 'LED off'
         GPIO.output(ledPin, GPIO.LOW) #
LED Off
         Time.sleep(1.0)
                                # wait 1 sec
```

Def endprogram():

GPIO.output(ledPin, GPIO.LOW) # LED
Off

GPIO.cleanup() # Release resources

If __name__ == '__main__': # Program starts
from here Setup()

Try:

Loop()

Light Except KeyboardInterrupt: # When 'Ctrl+C' is pressed, the destroy() will be executed Endprogram()

Coding for Traffic lights:

From gpiozero import LED

From time import sleep

Green = LED(17)

```
Yellow = LED(27)
Red = LED(22)
Def switchLights (greenLight, yellowLight,
redLight, sleepTime):
If greenLight:
Green.on()
Else:
Green.off()
If yellowLight:
Yellow.on()
Else:
Yellow.off()
If redLight:
```

Red.on() Else:

Red.off()

Sleep(sleepTime) While True:

switchLights (True, False, False, 10)

switchLights (False, True, False, 1)

switchLights (False, False, True, 10) switchLights (False, True, True, 1)