## Assignment -3

## **Python Programming**

Assignment Date	10 October 2022	
Student Name	V.Bairavi	
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Maximum Marks	2 Marks	

## Question-1:

Write a python code for blinking LED and Traffic lights for Raspberry pi.

```
Solution:
import RP1.GPIO as GP10
import time
GPIO. setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUT) #Green LED
GPIO.setup(11, GPI0.OUT)#Yellow LED
GPIO.setup(13, GPIO.OUT) #Red LED
GPIO.setup(15, GP10.IN, pull_up_down=GPIO.PUD_UP)#Button
def turn_on(pin, seconds):
  GPIO.output (pin,GPIO.HIGH)
  time.sleep(seconds)
def turn_off (pin, seconds):
  GPIO.output (pin, GPIO.LOW)
  time.sleep(seconds)
try:
  while True:
    button_state=GPIO.input (15)
    if button_state== True:
      turn_on(13,2)
     tum_off(13,.1)
     turn_on(7,4)
      turn_off(7,.11)
     turn_on(11,1)
      turn_off(11,1)
    else:
      if button_state== False:
       GPIO.output (7,GPIO.LOW)
       GPIO.output(11,GPIO.LOW)
       GP10.output (13,GPIO.LOW)
       time.sleep(.1)
except KeyboardInterrupt:
  GPIO.cleanup()
  print("Traffic Light Sequence Done")
```