## Assignment -3

Assignment Date	12 October 2022
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Maximum Marks	2 Marks

## Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

## **Solution:**

```
Traffic Light:
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
lights = TrafficLights(25, 8, 7)
while True:
  button.wait_for_press()
  lights.on()
  button.wait_for_release()
  lights.off()
buzzer = Buzzer(15)
while True:
  lights.blink()
  buzzer.beep()
  button.wait_for_press()
  lights.off()
  buzzer.off()
  button.wait_for_release()
while True:
  button.wait_for_press()
  lights.green.on()
  sleep(1)
```

```
lights.amber.on()
  sleep(1)
  lights.red.on()
  sleep(1)
  lights.off()
Led Blinking:
import RPi.GPIO as GPIO
import time
ledPin = 22
def setup():
    GPIO.setmode(GPIO.BOARD)
    GPIO.setup(ledPin, GPIO.OUT)
    GPIO.output(ledPin, GPIO.LOW)
def loop():
    while True:
        print 'LED on'
        GPIO.output(ledPin, GPIO.HIGH)
        time.sleep(1.0)
        print 'LED off'
        GPIO.output(ledPin, GPIO.LOW)
        time.sleep(1.0)
def endprogram():
    GPIO.output(ledPin, GPIO.LOW)
    GPIO.cleanup()
if __name__ == '__main__':
```

```
setup()
try:
    loop()
except KeyboardInterrupt:
    endprogram()
```