# **Assignment -3**

Assignment Date	5 October 2022
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Maximum Marks	2 Marks

### Question-1:

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

#### Solution:

## **#LED BLINKING:**

```
import RPi.GPIO as GPIO from time import sleep
```

```
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
```

```
while True: #infinite loop
```

GPIO.output(8, GPIO.HIGH) # Turn on

print("The LED is ON")

sleep(5) # Sleep for 5 second

GPIO.output(8, GPIO.LOW) # Turn off print("The LED is OFF")

sleep(5) # Sleep for 5 second

# **#TRAFFIC LIGHT CODE:**

from gpiozero import LED from time import sleep

red= LED(17) #pin numbers connected to Led's

```
amber=(22)
green=(27)
while True:
  red.on()
                      #RED light
  print("Red light is ON")
  for i in range(60,0,-1):
    print("Remaining time: ",i)
    sleep(1)
  red.off()
  amber.on()
                        # AMBER light
  print("Yellow light is ON")
  for i in range(5,0,-1):
    print("Remaining time: ",i)
    sleep(1)
  amber.off()
                       #GREEN light
  green.on
  print("Green light is ON")
  for i in range(40,0,-1):
    print("Remaining time: ",i)
    sleep(1)
  green.off()
```