## **Assignment -3**

**Python Programming** 

Assignment Date	1 October 2022
Student Name	HARIHARAN A
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Maximum Marks	2 Marks

## Question-1:

Write a python code for Blinking LED for Raspberry Pi.

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BCM)
GPIO.setup(22, GPIO.OUT)
while True:
GPIO.output(22, GPIO.HIGH)
sleep(1)
GPIO.output(22, GPIO.LOW)
sleep(1)
```

```
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import RPi.GPIO as GPIO

from time import sleep

GPIO.setmode(GPIO.BCM)

GPIO.setup(22, GPIO.OUT)

while True:

GPIO.output(22, GPIO.HIGH)

sleep(1)

GPIO.output(22, GPIO.LOW)

sleep(1)
```

## Question-2:

Write a python code for Traffic Lights Simulation for Raspberry Pi.

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BCM)
RED,YELLOW,GREEN=9,10,11
GPIO.setup(RED, GPIO.OUT)
GPIO.setup(YELLOW, GPIO.OUT)
GPIO.setup(GREEN, GPIO.OUT)
while True:
 # Red Signal
 GPIO.output(RED, HIGH)
  sleep(55)
 # Yellow Signal
  GPIO.output(RED, LOW)
 GPIO.output(YELLOW, HIGH)
  sleep(5)
  # Green Signal
 GPIO.output(YELLOW, LOW)
  GPIO.output(GREEN, HIGH)
  sleep(30)
GPIO.output(GREEN, LOW)
```

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BCM)
RED, YELLOW, GREEN=9, 10, 11
GPIO.setup(RED, GPIO.OUT)
GPIO.setup(YELLOW, GPIO.OUT)
GPIO.setup(GREEN, GPIO.OUT)
while True:
    GPIO.output (RED, HIGH)
    sleep(55)
    GPIO.output(RED, LOW)
    GPIO.output (YELLOW, HIGH)
    sleep(5)
    GPIO.output(YELLOW, LOW)
    GPIO.output(GREEN, HIGH)
    sleep(30)
    GPIO.output (GREEN, LOW)
```