ASSIGNMENT - 3

PYTHON PROGRAMMING

ASSIGNMENT DATE	03 OCTOBER,2022
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MAXIMUM MARKS	2 marks

QUESTION 1

Write python code for Blinking led and traffic lights for Rasberry Pi

CODE:

BLINKING OF LED (RGB LED)

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8,GPIO.OUT)
GPIO.setup(12,GPIO.OUT)
GPIO.setup(10,GPIO.OUT)
for x in range(5):
    GPIO.output(8,True)
    print("RED IS ON")
    sleep(2)
    GPIO.output(8,False)
    print("RED IS OFF")
    sleep(2)
    GPIO.output(12,True)
    print("Green IS ON")
    sleep(2)
```

```
    GPIO.output(12,False)
    print("GREEN IS OFF")
    sleep(2)
    GPIO.output(10,True)
    print("BLUE IS ON")
    sleep(2)
    GPIO.output(10,False)
    print("BLUE IS oFF")
   sleep(2)
```

TRAFFIC LIGHT

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7,GPIO.OUT)
GPIO.setup(11,GPIO.OUT)
GPIO.setup(13,GPIO.OUT)
while True:
    GPIO.output(7,True)
    print("RED is ON")
    sleep(3)
    GPIO.output(7,False)
    print("RED is OFF")
     GPIO.output(11,True)
     print("YELLOW is ON")
    sleep(1)
     GPIO.output(11,False);
     print("YELLOW is OFF")
      GPIO.output(13,True)
      print("GREEN is ON")
```

```
sleep(3)
 GPIO.output(13,False)
 print("GREEN is OFF")
 GPIO.cleanup()
```