ASSIGNMENT - 3

PYTHON PROGRAMMING

ASSIGNMENT DATE	8 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:

sleep(2)

BLINKING OF LED (RGB LED)

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOAR
D)
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")
```

```
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.BOAR
D)
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()
```