ASSIGNMENT - 3

PYTHON PROGRAMMING

ASSIGNMENT DATE	12 OCTOBER,2022
Team ID	PNT2022TMID33873
Project Name	Smartfarmer-IOT Enable Smart farming Application

QUESTION 1

Write python code for Blinking led and traffic lights for Raspberry 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()
```