# IBM Report (Nalaiya Thiran) IOT based Smart Farming

## **SUBMITTED BY**

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### **ASSIGNMENT 3:**

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)
GPIO.cleanup()
```

#### **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()
```