ASSIGNMENT-3

Date	04-10-2022
Team ID	PNT2022TMID10305
Project Name	Smart Farmer – IOT Enabled Smart Farming Application

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TOPIC: Write python code for blinking LED and Traffic lights for Raspberry pi.

CODE:

1)PYTHON CODE FOR BLINKING LED

```
import RPi.GPIO as aa import time

aa.setmode(aa.BOARD)

aa.setup(40,aa.OUT)

while 1:

aa.output(40,0)

time.sleep(2)

aa.output(40,1)

time.sleep(2)
```

2) PYTHON CODE FOR TRAFFIC LIGHT

```
GPIO.output(8, GPIO.LOW) # Turn off
 Sleep (1) # Sleep for 1 second
 import RPi.GPIO as
 GPIO import time
 import
 signal
 import sys
 # Setup
 GPIO.setmode(GPIO.BCM)
 GPIO.setup(9, GPIO.OUT)
 GPIO.setup(10,
 GPIO.OUT) GPIO.setup(11,
 GPIO.OUT)
 # Turn off all lights when user ends demo
 def allLightsOff(signal, frame):
 GPIO.output(9, False)
 GPIO.output(10,
 False) GPIO.output(11,
 False) GPIO.cleanup()
 sys.exit(0)
 signal.signal(signal.SIGINT, allLightsOff)
# Loop forever
```

while True:

Red

GPIO.output(9,

True)

```
time.sleep(3)
# Red and amber
GPIO.output(10, True)
time.sleep(1)
# Green
GPIO.output(9, False)
GPIO.output(10,
False) GPIO.output(11,
True) time.sleep(5)
# Amber
GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)
# Amber off (red comes on at top of loop)
GPIO.output(10, False)
```