ASSIGNMENT- 3

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Date	15-10-2022
Team ID	PNT2022TMID33671
Project Name	Smart Farmer- IOT Enabled Smart Farming Application
Maximum Marks	2 Marks

QUESTION- 1:

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

Solution :

```
        #LED BLINKING :

import RPi.GPIO as GPIO from

time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True: #infinite loop

GPIO.output(8, GPIO.HIGH) # Turn on

print("The LED is ON") sleep(5) #

Sleep for 5 second GPIO.output(8,

GPIO.LOW) # Turn off print("The

LED is OFF") sleep(5) # Sleep for 5
second
```

```
#TRAFFIC LIGHT CODE :

from  gpiozero  import  LED

from time import sleep
```

```python
red= LED(17) #pin numbers connected to Led's
amber=(22) green=(27)

while True:
    red.on() #RED light print("Red light is ON") for i in range(60,0,-1):
        print("Remaining time: ",i)

        sleep(1) red.off() amber.on() # AMBER light print("Yellow light is ON") for i in range(5,0,-1):
            print("Remaining time: ",i)
            sleep(1) amber.off() green.on #GREEN light print("Green light is ON") for i in range(40,0,-1):
                print("Remaining time: ",i)
                sleep(1) green.off()
```