ASSIGNMENT- 3

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Team ID	PNT2022TMID38983
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(&amp;quot;The LED is ON&amp;quot;)
sleep(5) # Sleep for 5 second
GPIO.output(8, GPIO.LOW) # Turn off
print(&amp;quot;The LED is OFF&amp;quot;)
sleep(5) # Sleep for 5 second
```

#TRAFFIC LIGHT CODE :

```
from gpiozero import LED
from time import sleep
```

```
red= LED(17) #pin numbers connected to Led&#39;s
amber=(22)
green=(27)

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

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