ASSIGNMENT- 3

| Team member | PARASURAMAN E |
|-----------------|--|
| Register Number | 6113191041071 |
| Date | 04-11-2022 |
| TeamID | PNT2022TMID17065 |
| 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)

GPI O.setmode(GPI O.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 gpi ozero 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("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
#GREENlight print("Green
light is ON") for i in
range(40,0,- 1):
print("Remaining time: ",i)
sleep(1) green.off()
```