Assignment -3

Python Programming

| Assignment Date | 16 october 2022 |
|---------------------|-----------------|
| Student Name | Gowtham K |
| Student Roll Number | 917719IT031 |
| Maximum Marks | 2 Marks |

Question-1:

LED blinking code

Solution:

import RPi.GPIO as GP from time import sleep

GP.setwarnings(False)

GP.setmode(GP.BOARD)

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

while True: #infinite loop

GP.output(8, GPIO.HIGH) #

Turn on print("The LED is ON")

sleep(2) # Sleep for 2 second

GP.output(8, GPIO.LOW) #Turn off

print("The LED is OFF")

sleep(2) # Sleep for 2

second

Question 2:

TRAFFIC LIGHT RASBERRY PYTHON CODE

Solution:

```
From gpiozero import LED
From time import sleep
Red= LED(17) #pin numbers connected to Led's
Aster=(22)
Green=(27)
While True:
Red.on() #RED light
Print("Red light is ON")
For I in range(100,0,-1):
Print("Remaining time: ",i)
Sleep(1)
Red.off()
Aster.on() # ASTER light
Print("Yellow light is ON")
For I in range(5,0,-1):
Print("Remaining time: ",i)
Sleep(1)
Aster.off()
Green.on #GREEN light
Print("Green light is ON")
For I in range(30,0,-1):
Print("Remaining time: ",i)
Sleep(1)
Green.off()
```