**Assignment -3**

Python Programming

|  |  |
| --- | --- |
| Assignment Date | 10 November 2022 |
| Student Name | Akshaya.A |
| Student Roll Number | 960219106016 |
| Maximum Marks | 2 Marks |

|  |  |
| --- | --- |
|  |  |
|  |  |

**PYTHON CODE FOR BLINKING LED:**

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:

GPIO.output(8, GPIO.HIGH)

print("The LED is ON")

sleep(2)

GPIO.output(8, GPIO.LOW)

print("The LED is OFF")

sleep(2)

**PYTHON CODE FOR TRAFFIC LIGHT FOR RASPBERRY PI:**

from gpiozero import LED

from time import sleep

red= LED(17)

aster=(22)

green=(27)

while True:

red.on()

print("Red light is ON")

for i in range(100,0,-1):

print("Remaining time: ",i)

sleep(1)

red.off()

aster.on()

print("Yellow light is ON")

for i in range(5,0,-1):

print("Remaining time: ",i)

sleep(1)

aster.off()

green.on

print("Green light is ON")

for i in range(30,0,-1):

print("Remaining time: ",i)

sleep(1)

green.off()