## **ASSINGMENT 3**

# **PYTHON PROGRAMMING**

Assignment Date	1 October 2022
Student Name	AJAY D
Student Roll Number	311019106006
Maximum Marks	2 Marks

## **Question-1:**

Write a python code blinking a LED for Raspberry pi

### **Solution:**

## Code:

```
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time
    moduleGPIO.setwarnings(False) # Ignore warning for
    now GPIO.setmode(GPIO.BOARD) # Use physical pin
    numbering
    GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an
    output pin andset initial value to low (off)
while True: # Run forever
    GPIO.output(8, GPIO.HIGH) #
    Turn onsleep(1) # Sleep for 1
    second GPIO.output(8,
    GPIO.LOW) # Turn offsleep(1) #
    Sleep for 1 second
```

# **Question-2:**

Write a python code Traffic lights for Raspberry pi

```
Solution:
Code:
from gpiozero import Button, TrafficLights, Buzzerfrom time import sleep
buzzer =
Buzzer(15)button =
Button(21)
lights = TrafficLights(25, 8, 7)
while True:
 button.wait for p
 ress()buzzer.on()
 light.green.o
 n() sleep(1)
 lights.amber.
  on()sleep(1)
 lights.red.on(
 ) sleep(1)
 lights.off()
 buzzer.off()
```