# Assignment -3

## Python Programming

Assignment Date	19 October 2022
Student Name	Surendar V
Student Roll Number	212219060264
Maximum Marks	2 Marks

### **Question-1:**

Write a python code for led blinking in raspberry pi

```
Solution:
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
                       # Import the sleep function from the time module
from time import sleep
GPIO.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 and set initial value to 1
ow (off)
while True: # Run forever
  GPIO.output(8, GPIO.HIGH) # Turn on
  sleep(1)
                    # Sleep for 1 second
  GPIO.output(8, GPIO.LOW) # Turn off
  sleep(1)
                    # Sleep for 1 second
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time module
```

GPIO.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 and set initial value to low (off)

while True: # Run forever

```
GPIO.output(8, GPIO.HIGH) # Turn on
sleep(1) # Sleep for 1 second
GPIO.output(8, GPIO.LOW) # Turn off
sleep(1) # Sleep for 1 second
```

# **Question-2:**

```
Write a python code for traffic light in raspberry pi
Solution:
from gpiozero import Button, TrafficLights,
Buzzer
from time import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
while True:
      button.wait_for_press()
      buzzer.on()
      light.green.on()
      sleep(1)
      lights.amber.on()
      sleep(1)
      lights.red.on()
      sleep(1)
      lights.off()
      buzzer.off()
```