# **Assignment -3** Python Programming

Assignment Date	31 October 2022
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Student Roll Number	714019106101
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 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 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 lo w (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()