### **Assignment -3**

# **Python Programming**

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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 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
```

```
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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.setmode(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**:

sleep(1) lights.off() |buzzer.off()

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(20)
button = Button(31)
lights =
TrafficLights(35,16,14)
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()
File Edit Format Run Options Window Help
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(20)
button = Button(31)
lights = TrafficLights(35,16,14)
 while True:
              button.wait_for_press()
              buzzer.on()
             light.green.on()
sleep(1)
lights.amber.on()
             sleep(1)
lights.red.on()
```