## Assignment -3

# **Python Programming**

## 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

# Question-2:

```
Write a python code for traffic light in raspberry pi
```

## SOLUTION:

```
from\ gpiozero\ import\ Button,\ Traffic Lights,\ Buzzer
```

from time import sleep

```
buzzer = Buzzer(19)
button = Button(11)
lights = TrafficLights(29, 16, 9)
```

# 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()