### 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, TrafficLights, Buzzer from time import sleep
```

```
buzzer = Buzzer(25)
button = Button(15)
lights = TrafficLights(20,13, 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()