## 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(17)
button = Button(13)
lights = TrafficLights(22, 10, 6)
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()