Assignment -3
Python Programming for Raspberry pi

Assignment Date	October 6, 2022
Student Name	SNEHA L
Student Roll Number	513119106079
Maximum Marks	2 Marks

Question.1)Write python code for Blinking LED using Raspberry pi?

```python
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 python code for Traffic lights using Raspberry pi?

```python
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()
```