

Assignment -3
Python Programming for Raspberry pi

Assignment Date	October 6, 2022
Student Name	TAMILMANI T
Student Roll Number	513119106091
Maximum Marks	2 Marks

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

```
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?

```
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()