

**Assignment -3**  
**Python Programming for Raspberry pi**

Assignment Date	October 6, 2022
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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()