## Assignment -3

## **Python Programming**

Assignment Date	06 October 2022
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Maximum Marks	2 Marks

## 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

```
File Edit Format Run Options Window Help
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.setwode(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(15) button
= Button(21)
lights = TrafficLights(25, 8, 7)
while True:
              button.wait_for_press(
              ) buzzer.on()
              light.green.on()
File Edit Format Run Options Window Help
From gpiozero import Button, TrafficLights, Buzzer
from time import sleep
 buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
                button.wait_for_press()
butzer.on()
lught.green.on()
sleep()
lights.maber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
buzzer.off()
```

```
sleep(1)
lights.amber.on()
sleep(1) lights.red.on()
sleep(1)
lights.off()
buzzer.off()
```