## **Assignment -3**Python Programming

Assignment Date	31 October 2022
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Student Roll Number	714019106131
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 1 ow (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 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

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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
```

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