

**Assignment -3**  
Python Programming

Assignment Date	10 October 2022
Student Name	T.Manoshree
Student Roll Number	820419104033
Maximum Marks	2 Marks

**Question-1:**

Write Python code for blinking LED and Traffic lights for Raspberry Pi

**Solution:**

**import RPi.GPIO as GPIO # RPi.GPIO can be referred as GPIO from now**

**import time**

**ledPin = 22    # pin22**

**def setup():**

**GPIO.setmode(GPIO.BOARD)**

**GPIO.setup(ledPin, GPIO.OUT)**

**GPIO.output(ledPin, GPIO.LOW)**

**def loop():**

**while True:**

**print 'LED on'**

**GPIO.output(ledPin, GPIO.HIGH)**

**time.sleep(1.0)**

**print 'LED off'**

**GPIO.output(ledPin, GPIO.LOW)**

**time.sleep(1.0)**

**def endprogram():**

**GPIO.output(ledPin, GPIO.LOW)**

**GPIO.cleanup()**

**if \_\_name\_\_ == '\_\_main\_\_':**

**setup()**

**try:**

**loop()**

**except KeyboardInterrupt:**

**endprogram()**