

Assignment -3
Python Programming

Assignment Date	07 October 2022
Student Name	Ms. Gowshalya S
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Maximum Marks	2 Marks

Question-1:

Write a Python code for Blinking LED and Traffic Light for Raspberry Pi

Solution:

Blinking Of an LED For Raspberry Pi

```
Import RPi.GPIO as GPIO
Import time
LED 11 #pin11
print("***** LED Blinking using Raspberry Pi 3 *****")
GPIO.setwarnings (False)
GPIO.setmode(GPIO.BOARD) #We are accessing GPIOs according to their
physical location GPIO.setup(LED, GPIO.OUT) #We have set our LED pin
mode to output
GPIO.output (LED, GPIO.LOW) # When it will start then LED will be OFF
while True: #Compiler will keep on executing this loop infinite loop
GPIO.output (LED, GPIO.HIGH) # led on
time.sleep(2) #delay
GPIO.output (LED, GPIO.LOW) led off
time.sleep(2)
```

Traffic Light for Raspberry Pi

```
from gpiozero import LED
#from the gpiozero library, import the LED block of code
from time import sleep
#go to the time library and grab the sleep cluster
red LED(22) #Defines Red led
amber LED(27)#Defies Anber led
green LED(17) Defines green led
While True: #infinite loop
    green.off()
    red.on()
    sleep(1) #1 second delay
    amber.on()
    sleep(1) #1 second delay.
    red.off()
    sleep(1) 1 second delay
    green.on()
    red.off()
    amber.off()
    sleep(1) #1 second delay
```