

Assignment -3
Python Programming for Raspberry pi

Assignment Date	28 September 2022
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Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi.

Only python code is enough, no need to execute in raspberry pi.

Note: you are allowed to use web search and complete the assignment.

SOLUTION :

PYTHON CODE FOR BLINKING LED FOR RASPBERRY PI

```
Import RPi.GPIO as GPIO
Import time
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(18,GPIO.OUT)
Print "LED on"
GPIO.output(18,GPIO.HIGH)
Time.sleep(1)
Print "LED off"
GPIO.output(18,GPIO.LOW)
```

PYTHON CODE FOR TRAFFIC LIGHTS FOR RASPBERRY PI

From gpiozero import LED, Button

From time import sleep

Red = LED(18)

Amber = LED(2)

Green = LED(17)

Button = Button(3)

Print("Press the button when you want to cross.")

Green.on()

Amber.off()

Red.off()

While True:

 Print("Wait")

 Button.wait_for_press()

 Green.off()

 Amber.on()

 Sleep(5)

 Amber.off()

 Red.on()

 Print("Cross now.")

 Sleep(10)

 Amber.on()

 Sleep(5)

 Green.on()

 Amber.off()

 Red.off()