

ASSIGNMENT 3

Python Programming

Assignment Date	11 October 2022
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Maximum Marks	2 Marks

Question-1:

Write a python code blinking a LED for Raspberry Pi.

CODE:

```
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
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 Traffic lights for Raspberry Pi.

CODE:

```
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()