

Assignment -3
Python Programming

Assignment Date	06 October 2022
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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  
# low (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
```

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(16)  
button = Button(26)  
lights = TrafficLights(28, 6, 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()
```