

Assignment - 3

Raspberry pi

Assignment Date	07 October 2022
Student Name	Mr. Premnath
Student Roll Number	910819104008
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:

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 (off)
GPIO.setup(22, GPIO.OUT, initial=GPIO.LOW) # Set pin 22 to be an output pin and set initial value to low (off)
GPIO.setup(27, GPIO.OUT, initial=GPIO.LOW) # Set pin 27 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
    GPIO.output(22, GPIO.HIGH) # Turn on
    sleep(1) # Sleep for 1 second
    GPIO.output(22, GPIO.LOW) # Turn
```