Assignment -3

Python Programming

Assignment Date	01 October 2022
Student Name	Mr. Ranga krishna prasadh H
Student Roll Number	CITC1904106
Maximum Marks	2 Marks

Question-1:

Write a python code for blinking LED and traffic lights for Raspberry Pi

Solution:

```
#python code for blinking LED and traffic lights
import RPi.GPIO as GPIO
import time
import sys
# Startup
GPIO.setmode(GPIO.BCM)
GPIO.setup(4, GPIO.OUT)
GPIO.setup(5, GPIO.OUT)
GPIO.setup(6, GPIO.OUT)

# Initialisation
GPIO.output(4, False)
GPIO.output(5, False)
GPIO.output(6, False)
GPIO.cleanup()

# Loop forever
while True:
    # Red on
    GPIO.output(4, True)
    time.sleep(5)
    # Red and yellow on
    GPIO.output(5, True)
    time.sleep(2)
    # Green on
    GPIO.output(4, False)
    GPIO.output(5, False)
    GPIO.output(6, True)
    time.sleep(5)
    # yellow on green off
    GPIO.output(6, False)
    GPIO.output(5, True)
    time.sleep(2)
    # yellow off
    GPIO.output(5, False)
```

CODING

assignment 3.py - C:/Users/DELL/AppData/Local/Programs/Python/Python39/assignment 3.py (3.9.5)

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while True:
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      GPIO.output(4, True)
      time.sleep(5)
      # Red and yellow on
      GPIO.output(5, True)
      time.sleep(2)
      # Green on
      GPIO.output(4, False)
      GPIO.output(5, False)
      GPIO.output(6, True)
      time.sleep(5)
      # yellow on green off
      GPIO.output(6, False)
      GPIO.output(5, True)
      time.sleep(2)
      # yellow off
      GPIO.output(5, False)
```