

Assignment -3

Python Programming

Assignment Date	05 October 2022
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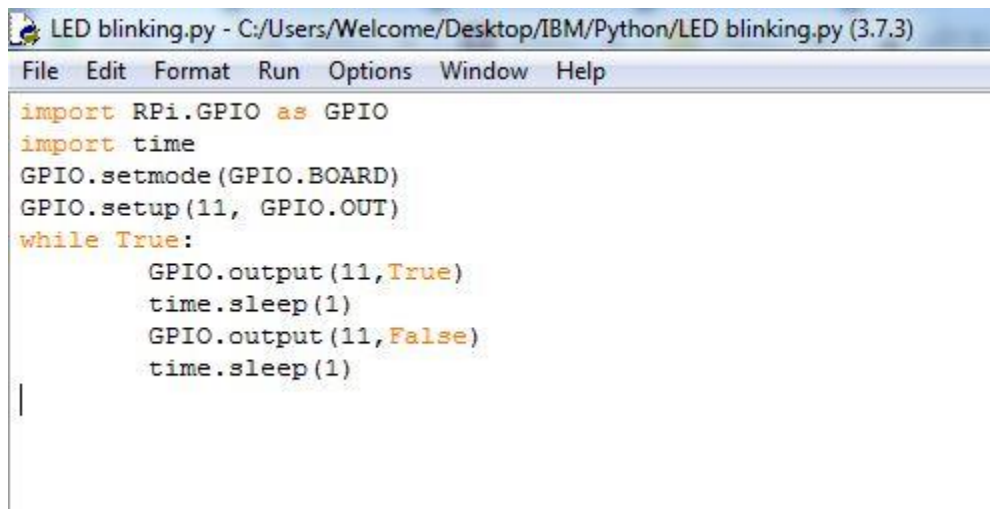
Question:

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

Program:

(i)Blinking LED

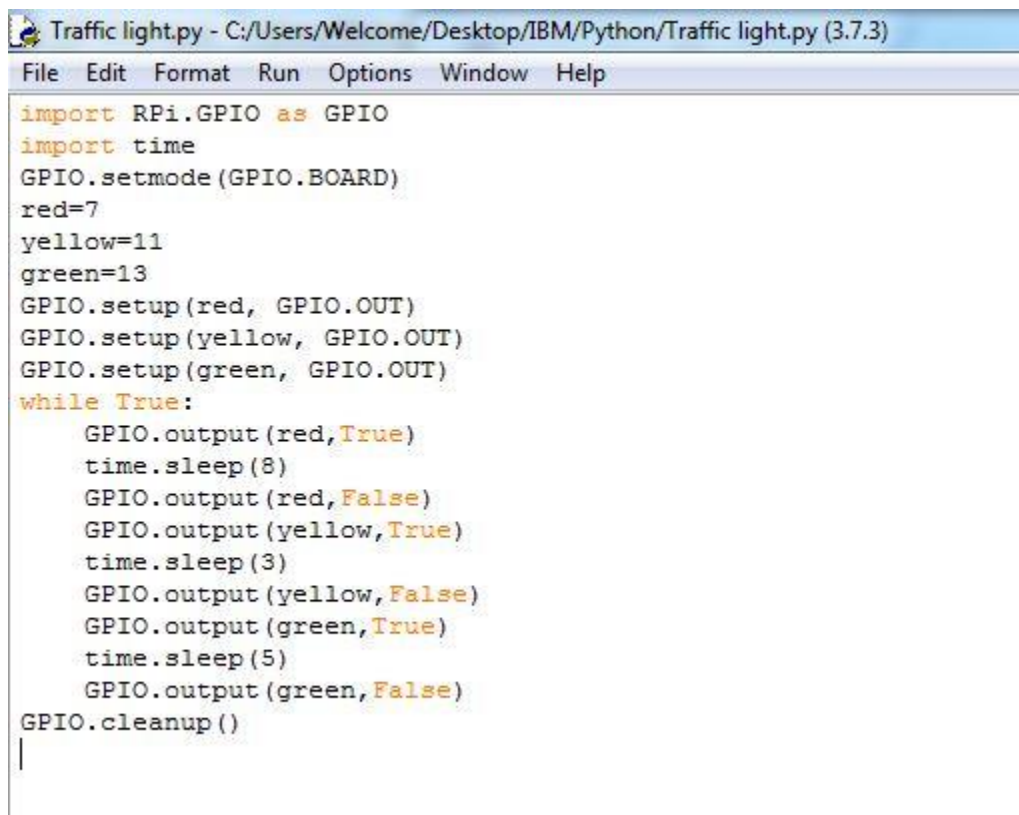
```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11, GPIO.OUT)
while True:
    GPIO.output(11,True)
    time.sleep(1)
    GPIO.output(11,False)
    time.sleep(1)
```

A screenshot of a Python IDE window titled "LED blinking.py - C:/Users/Welcome/Desktop/IBM/Python/LED blinking.py (3.7.3)". The window has a menu bar with "File", "Edit", "Format", "Run", "Options", "Window", and "Help". The code editor displays the same Python code as the previous block, with syntax highlighting: keywords in orange, function names in blue, and strings in red. The code is as follows:

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11, GPIO.OUT)
while True:
    GPIO.output(11,True)
    time.sleep(1)
    GPIO.output(11,False)
    time.sleep(1)
```

(ii)Traffic light

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
red=7
yellow=11
green=13
GPIO.setup(red, GPIO.OUT)
GPIO.setup(yellow, GPIO.OUT)
GPIO.setup(green, GPIO.OUT)
while True:
    GPIO.output(red,True)
    time.sleep(8)
    GPIO.output(red,False)
    GPIO.output(yellow,True)
    time.sleep(3)
    GPIO.output(yellow,False)
    GPIO.output(green,True)
    time.sleep(5)
    GPIO.output(green,False)
GPIO.cleanup()
```



```
Traffic light.py - C:/Users/Welcome/Desktop/IBM/Python/Traffic light.py (3.7.3)
File Edit Format Run Options Window Help
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
red=7
yellow=11
green=13
GPIO.setup(red, GPIO.OUT)
GPIO.setup(yellow, GPIO.OUT)
GPIO.setup(green, GPIO.OUT)
while True:
    GPIO.output(red,True)
    time.sleep(8)
    GPIO.output(red,False)
    GPIO.output(yellow,True)
    time.sleep(3)
    GPIO.output(yellow,False)
    GPIO.output(green,True)
    time.sleep(5)
    GPIO.output(green,False)
GPIO.cleanup()
```