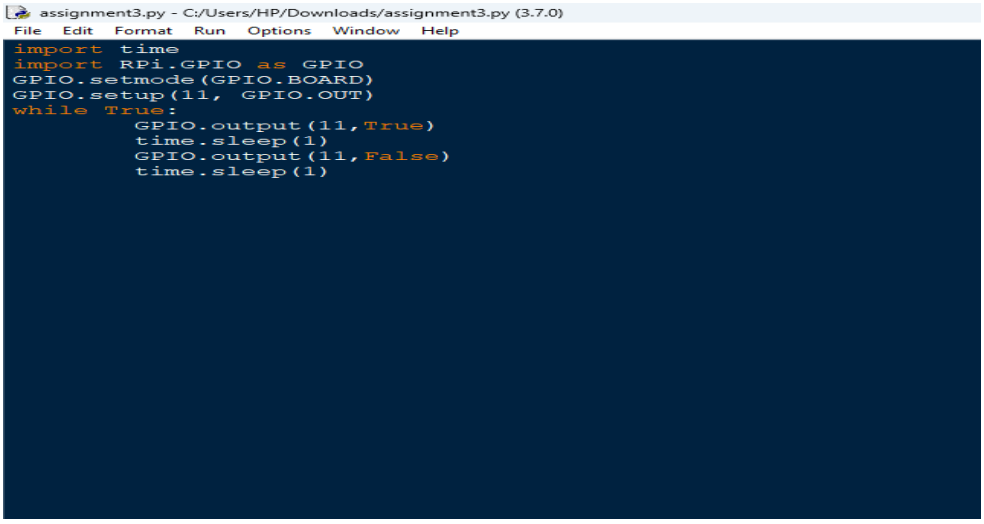
Assignment -3
Python Programming

Assignment Date	30 September 2022
Student Name	Narmadha .M
Student Roll Number	211419106178
Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED

```
import time

import RPi.GPIO as GPIO

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)
```



Question-2:

Write python code for Traffic lights

```
import time
import RPi.GPIO as GPIO
GPIO.cleanup()

GPIO.setmode(GPIO.BOARD)
GPIO.setup(11,GPIO.OUT)
GPIO.setup(13,GPIO.OUT)
GPIO.setup(15,GPIO.OUT)
GPIO.setup(12,GPIO.IN)
while True:
GPIO.output(11,GPIO.HIGH)
if (GPIO.input(12) == True):
print("pressed")
time.sleep(3)
GPIO.output(13,GPIO.HIGH)
time.sleep(3)
GPIO.output(11,GPIO.LOW)
        GPIO.output(11,GPIO.LOW)
GPIO.output(13,GPIO.LOW)
GPIO.output(15,GPIO.HIGH)
time.sleep(3)
GPIO.output(15,GPIO.LOW)
GPIO.output(13,GPIO.HIGH)
time.sleep(3)
GPIO.output(13,GPIO.LOW)
print("End")
```

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```
import time
import RPi.GPIO as GPIO
GPIO.cleanup()
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11,GPIO.OUT)
GPIO.setup(13,GPIO.OUT)
GPIO.setup(15,GPIO.OUT)
GPIO.setup(12,GPIO.IN)
while True:
    GPIO.output(11,GPIO.HIGH)
if (GPIO.input(12) == True):
    print("pressed")
time.sleep(3)
GPIO.output(13,GPIO.HIGH)
time.sleep(3)
GPIO.output(11,GPIO.LOW)
GPIO.output(11,GPIO.LOW)
GPIO.output(13,GPIO.LOW)
GPIO.output(15,GPIO.HIGH)
time.sleep(3)
GPIO.output(15,GPIO.LOW)
GPIO.output(13,GPIO.HIGH)
time.sleep(3)
GPIO.output(13,GPIO.LOW)
print("End")
```