ASSIGNMENT 3

PYTHON PROGRAMMING

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Assignment Date	06 October 2022
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Question1:

Write a python code for blinking LED using Raspberrry pi.

Program Code:

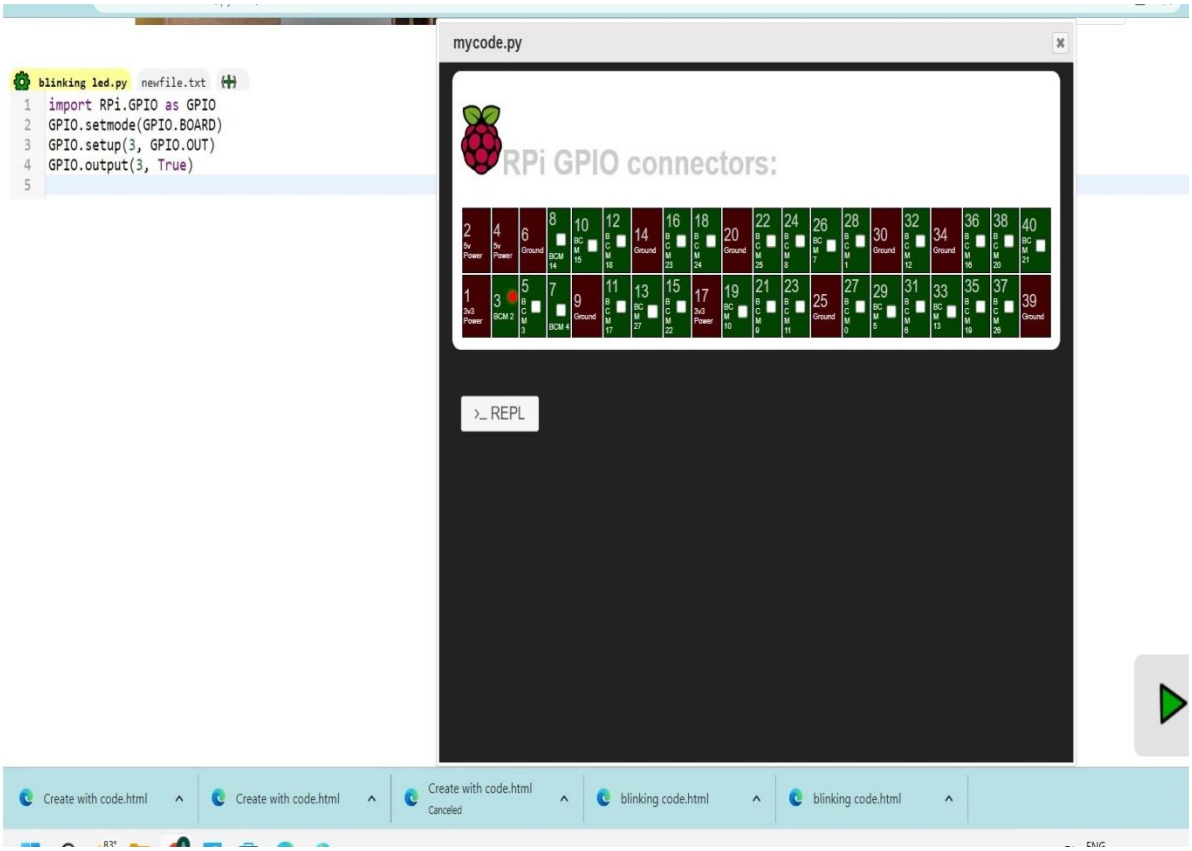
```
Import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(3,GPIO.OUTPUT

GPIO.output(3, True)
```

Output:


blinking led.py
newfile.txt
1 import RPi.GPIO as GPIO
2 GPIO.setmode(GPIO.BOARD)
3 GPIO.setup(3, GPIO.OUT)
4 GPIO.output(3, True)
5
mycode.py
RPi GPIO connectors:
>_ REPL
Create with code.html
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blinking code.html
blinking code.html

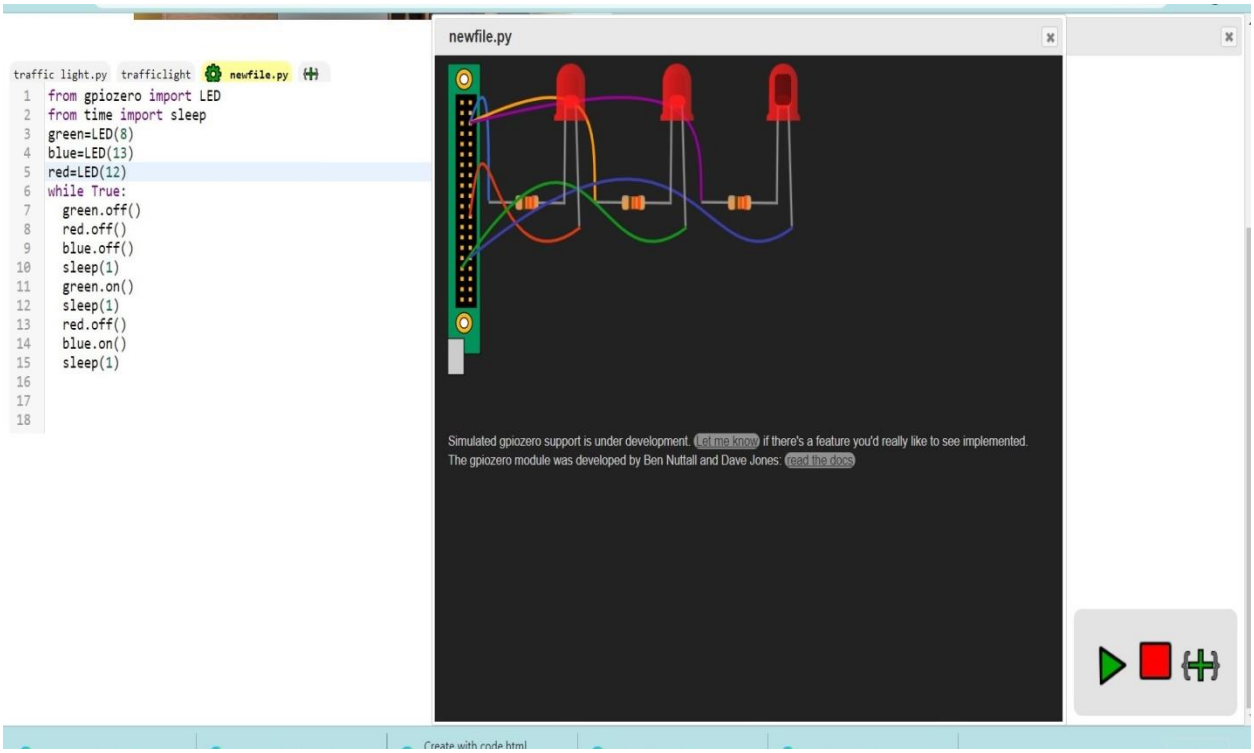
Question2:

Write a python code for Traffic Lights using Raspberrry pi.

Program Code:

```
from gpiozero import LED
from time import sleep
green=LED(8)
blue=LED(13)
red=LED(12)
while True:
    green.off()
    red.off()
    blue.off()
    sleep(1)
    green.on()
    sleep(1)
    red.off()
    blue.on()
    sleep(1)
```

Output:


traffic light.py
trafficlight
newfile.py
1 from gpiozero import LED
2 from time import sleep
3 green=LED(8)
4 blue=LED(13)
5 red=LED(12)
6 while True:
7 green.off()
8 red.off()
9 blue.off()
10 sleep(1)
11 green.on()
12 sleep(1)
13 red.off()
14 blue.on()
15 sleep(1)
16
17
18
newfile.py
Simulated gpiozero support is under development. Let me know if there's a feature you'd really like to see implemented.
The gpiozero module was developed by Ben Nuttall and Dave Jones. Read the docs
Create with code.html