

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:

2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
5V	5V	Ground	BCM 14	BCM 15	BCM 16	Ground	BCM 23	BCM 24	Ground	BCM 25	BCM 7	BCM 1	Ground	Ground	BCM 12	Ground	BCM 16	BCM 20	BCM 21
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39
5V	BCM 2	BCM 3	BCM 4	Ground	BCM 17	BCM 27	BCM 22	5V	BCM 10	BCM 9	BCM 11	Ground	BCM 0	BCM 5	BCM 13	BCM 19	BCM 26	Ground	

>_ REPL

Create with code.html

Create with code.html

Create with code.html
Canceled

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:

