

ASSIGNMENT-3

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

For blinking LED

```
from gpiozero import LED
```

```
red = LED(22)
```

```
red.blink()
```

```
from gpiozero import LED
```

```
red = LED(22)
```

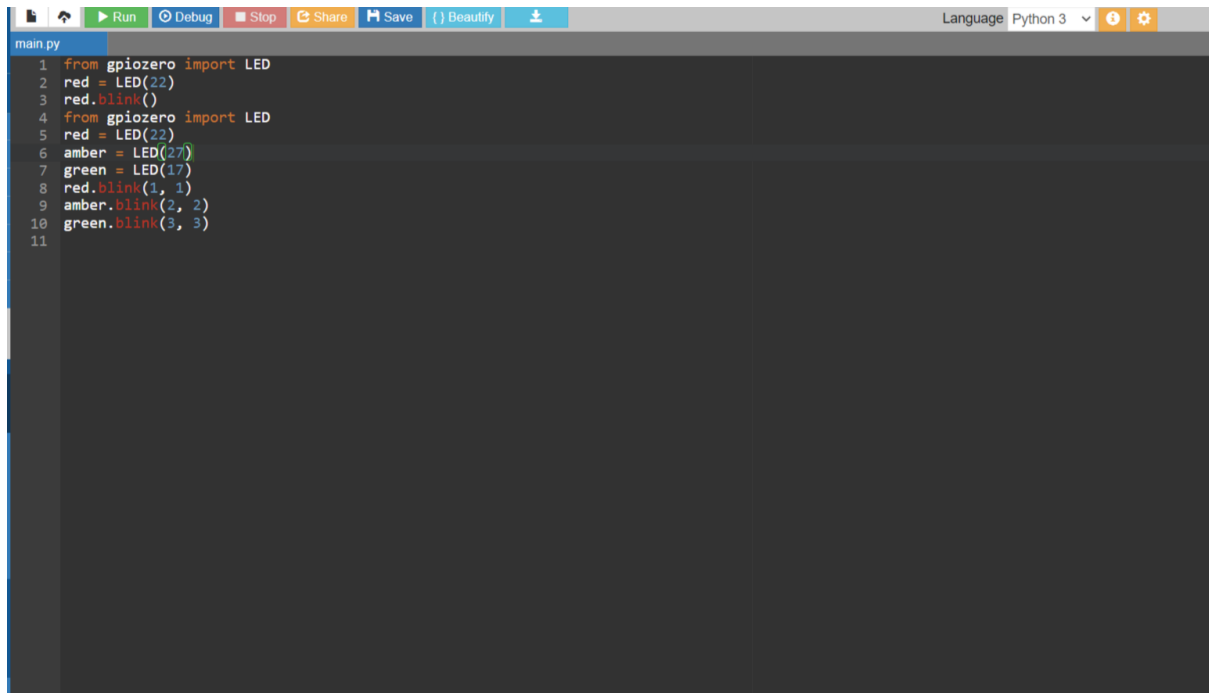
```
amber = LED(27)
```

```
green = LED(17)
```

```
red.blink(1, 1)
```

```
amber.blink(2, 2)
```

```
green.blink(3, 3)
```



```
1 from gpiozero import LED
2 red = LED(22)
3 red.blink()
4 from gpiozero import LED
5 red = LED(22)
6 amber = LED(27)
7 green = LED(17)
8 red.blink(1, 1)
9 amber.blink(2, 2)
10 green.blink(3, 3)
11
```

For Traffic lights

import time

import RPi.GPIO as GPIO ## Import GPIO library

GPIO.setmode(GPIO.BOARD) ## Use board pin numbering

GPIO.setup(11, GPIO.OUT) ## Setup GPIO Pin 11 to OUT

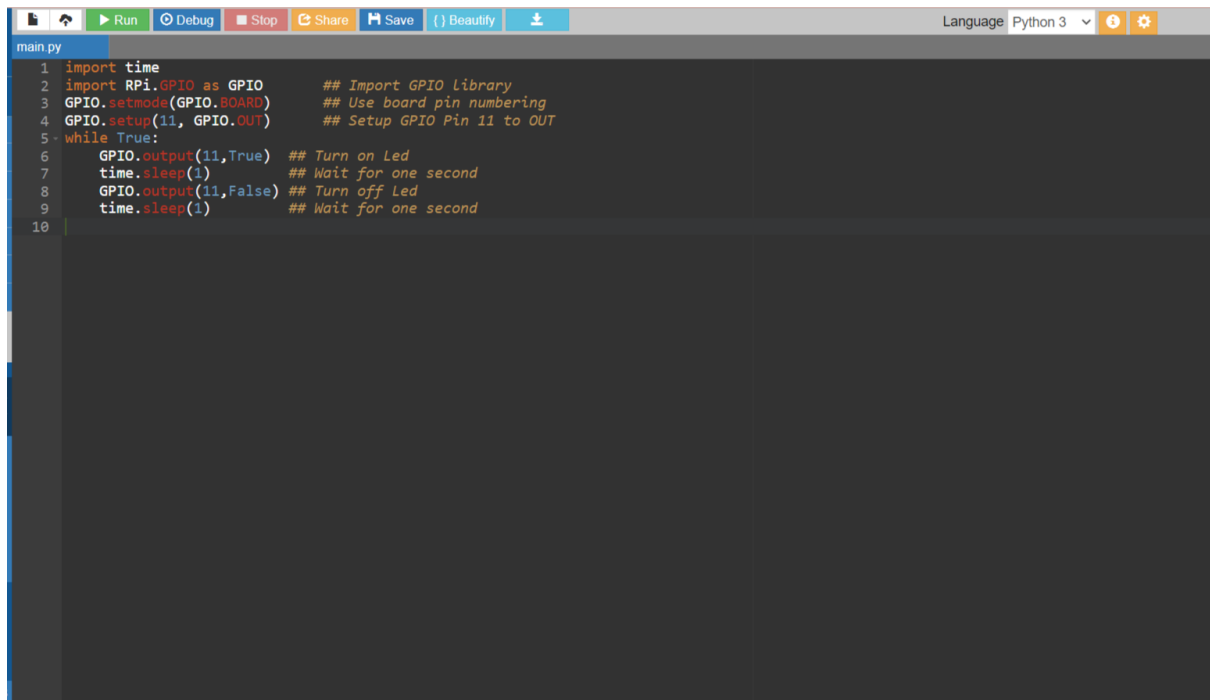
while True:

GPIO.output(11,True) ## Turn on Led

time.sleep(1) ## Wait for one second

GPIO.output(11,False) ## Turn off Led

time.sleep(1) ## Wait for one second



The image shows a code editor window with a dark theme. The top toolbar contains icons for file operations (new, open, save, share, download), a 'Run' button, a 'Debug' button, a 'Stop' button, and a 'Beautify' button. The language is set to 'Python 3'. The editor displays a file named 'main.py' with the following Python code:

```
1 import time
2 import RPi.GPIO as GPIO      ## Import GPIO library
3 GPIO.setmode(GPIO.BOARD)    ## Use board pin numbering
4 GPIO.setup(11, GPIO.OUT)     ## Setup GPIO Pin 11 to OUT
5 while True:
6     GPIO.output(11,True)     ## Turn on Led
7     time.sleep(1)            ## Wait for one second
8     GPIO.output(11,False)    ## Turn off Led
9     time.sleep(1)            ## Wait for one second
10
```