

ASSIGNMENT 3

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AIM:

Build a Raspberry pi code for blinking LED and Traffic light.

SOFTWARE REQUIRED:

Raspberry pi

Raspberry pi CODE:

```
import RPi.GPIO as IO      # calling header file for GPIO's of PI
```

```
import time                # calling for time to provide delays in program
```

```
IO.setmode (IO.BOARD)     # programming the GPIO by BOARD pin numbers, GPIO21 is called as PIN40
```

```
IO.setup(40,IO.OUT)        # initialize digital pin40 as an output.
```

```
IO.output(40,1)            # turn the LED on (making the voltage level HIGH)
```

```
time.sleep(1)              # sleep for a second
```

```
IO.cleanup()          # turn the LED off (making all the output pins LOW)
```

```
time.sleep(1)         #sleep for a second
```

```
#loop is executed second time
```

```
IO.setmode (IO.BOARD)
```

```
IO.setup(40,IO.OUT)
```

```
IO.output(40,1)
```

```
time.sleep(1)
```

```
IO.cleanup()
```

```
time.sleep(1)
```

```
#loop is executed third time
```

```
IO.setmode (IO.BOARD)
```

```
IO.setup(40,IO.OUT)
```

```
IO.output(40,1)
```

```
time.sleep(1)
```

```
IO.cleanup()
```

```
time.sleep(1)
```