

```
# import raspberry pi GPIO module
import RPi.GPIO as GPIO
```

```
#import time module for delay
import time
```

```
#give all the board pins in list to iterate one by one
```

```
pins = [3, 5, 7, 8, 10, 11, 12, 13, 15, 16, 18, 19, 21, 22, 23, 24, 26, 27, 28, 29, 31, 32, 33, 35, 36, 37, 38, 40]
```

```
#setting each board pins as output pin
```

```
for pin in pins:
```

```
    GPIO.setup(pin, GPIO.OUT)
```

```
#checking each pin for even or odd
```

```
for i in pins:
```

```
    if i%2==0:
```

```
#blinking twice for even pin
```

```
    for x in range(2):
```

```
        GPIO.output(i, GPIO.HIGH)
```

```
        time.sleep(1.0)
```

```
        GPIO.output(i, GPIO.LOW)
```

```
        time.sleep(1.0)
```

```
#blinking remaining pin ones as the remaining pins are odd
```

```
else:
```

```
    GPIO.output(i, GPIO.HIGH)
```

```
    time.sleep(1.0)
```

```
    GPIO.output(i, GPIO.LOW)
```

```
    time.sleep(1.0)
```

The screenshot shows a web browser window with two tabs: "Assignment (IoT)" and "Create with code". The address bar shows the URL "create.withcode.uk/python/A5". The browser's address bar and tabs are visible at the top. Below the browser window, there is a code editor with a file named "mycode.py". The code in the editor is as follows:

```
1 # import raspberry pi GPIO module
2 import RPi.GPIO as GPIO
3
4 #import time module for delay
5 import time
6
7 #give all the board pins in list to iterate one by one
8 pins = [3, 5, 7, 8, 10, 11, 12, 13, 15, 16, 18, 19, 21, 22, 23, 24, 26, 27, 28,
9
10 #setting each board pins as output pin
11 for pin in pins:
12     GPIO.setup(pin, GPIO.OUT)
13
14 #checking each pin for even or odd
15 for i in pins:
16
17     if i%2==0:
18
19 #blinking twice for even pin
20     for x in range(2):
21         GPIO.output(i, GPIO.HIGH)
22         time.sleep(1.0)
23         GPIO.output(i, GPIO.LOW)
24         time.sleep(1.0)
25
26 #blinking remaining pin ones as the remaining pins are odd
27 else:
28     GPIO.output(i, GPIO.HIGH)
29     time.sleep(1.0)
30     GPIO.output(i, GPIO.LOW)
31     time.sleep(1.0)
32
33
```

Below the code editor, there is a button that says "Click to run your code". To the right of the code editor, there is a diagram of a Raspberry Pi GPIO connector. The diagram is titled "RPi GPIO connectors:" and shows a grid of pins. The pins are numbered 1 through 40. The pins are color-coded: red for power pins (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40), green for ground pins (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40), and blue for BCM pins (14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40). The diagram is located at the bottom right of the browser window.

Assignment (IoT)
Create with code
+

create.withcode.uk/python/A5

Apps
fb anamika
403 Forbidden
YouTube
Maps
News
Gmail
Translate
DOWNLOADING C...
EMI
1337x | Movies, 133...
800px-Ada\_Lovelac...
GoogleCloudReady...
Reading list


mycode.py

```

1 # import raspberry pi GPIO module
2 import RPi.GPIO as GPIO
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4 #import time module for delay
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8 pins = [3, 5, 7, 8, 10, 11, 12, 13, 15, 16, 18, 19, 21, 22, 23, 24, 26, 27, 28,
9
10 #setting each board pins as output pin
11 for pin in pins:
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13     GPIO.setup(pin, GPIO.OUT)
14
15 #checking each pin for even or odd
16 for i in pins:
17
18     if i%2==0:
19
20 #blinking twice for even pin
21     for x in range(2):
22         GPIO.output(i, GPIO.HIGH)
23         time.sleep(1.0)
24         GPIO.output(i, GPIO.LOW)
25         time.sleep(1.0)
26
27 #blinking remaining pin ones as the remaining pins are odd
28     else:
29         GPIO.output(i, GPIO.HIGH)
30         time.sleep(1.0)
31         GPIO.output(i, GPIO.LOW)
32         time.sleep(1.0)
33




```

create.w
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 Power	5v Power	Ground	BCM 14	BCM 15	BCM 18	Ground	BCM 23	BCM 24	Ground	BCM 25	BCM 8	BCM 7	BCM 1	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
5v3 Power	BCM 2	BCM 3	BCM 4	Ground	BCM 17	BCM 27	BCM 22	5v3 Power	BCM 10	BCM 9	BCM 11	Ground	BCM 6	BCM 5	BCM 8	BCM 13	BCM 19	BCM 26	Ground

You can also run this code or watch this [video](#) .