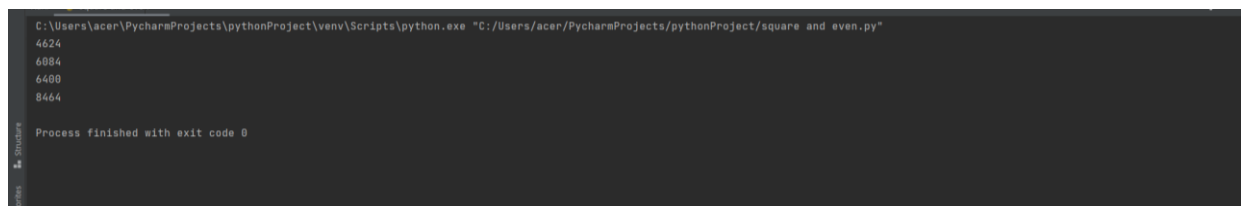**Aim:**

Generate a list of four digit numbers in a given range with all their digits
even and the number is a perfect square.

Algorithm:

```
for i in range(2000,10000,2):

    for j in range(38,1000,1):

        if i == j*j:

            string = str(i)

            if int(string[0])%2 == 0 and int(string[1])%2 == 0 and
int(string[2])%2 == 0 and int(string[3])%2 == 0:

                print(i)
```

Output:


```
C:\Users\acer\PycharmProjects\pythonProject\venv\Scripts\python.exe "C:/Users/acer/PycharmProjects/pythonProject/square and even.py"
4624
6084
6400
8464

Process finished with exit code 0
```