

```
Python 3.13.2 (tags/v3.13.2:4f8bb39, Feb  4 2025, 15:23:48) [MSC v.1942 64 bit (AMD64)] on win32
```

```
Type "help", "copyright", "credits" or "license()" for more information.
```

>>>

```
===== RESTART: C:/Red and white Rwn 3/project 2.py =====
```

```
Welcome to the Pattern Generator and Number Analyzer!
```

```
Select an option :
```

```
1.Generate a Pattern
```

```
2.Analyze a Range of Numbers
```

```
3.Exit
```

```
Enter your choice :1
```

```
Enter a number4
```

```
Pattern
```

```
*
```

```
**
```

```
***
```

```
****
```

```
Select an option :
```

```
1.Generate a Pattern
```

```
2.Analyze a Range of Numbers
```

```
3.Exit
```

```
Enter your choice :2
```

```
Enter a Start number :3
```

```
Enter a End number :9
```

```
Even number: [4, 6, 8]
```

```
odd number: [3, 5, 7, 9]
```

```
Total number : 7
```

```
sum: 42
```

Select an option :

- 1.Generate a Pattern
- 2.Analyze a Range of Numbers
- 3.Exit

Enter your choice :1

Enter a number4

Pattern

*

**

Select an option :

- 1.Generate a Pattern
- 2.Analyze a Range of Numbers
- 3.Exit

Enter your choice :2

Enter a Start number :3

Enter a End number :9

Even number: [4, 6, 8]

odd number: [3, 5, 7, 9]

Total number : 7

sum: 42

Select an option :

- 1.Generate a Pattern
- 2.Analyze a Range of Numbers
- 3.Exit

Enter your choice :3

Exiting the program Goodbye!