

```
*** welcome to the Pattern Generator and Number Analyzer! *
Select an option:
1.Generate a pattern:
2.Analyzer a Range of Numbers:
3.exit:
Enter Your choice:1
Enter a Number of Rows For the Pattern:5

Pattern:
*
**
***
****
*****


Select an option:
1.Generate a pattern:
2.Analyzer a Range of Numbers:
3.exit:
Enter Your choice:2
Enter the start of the range:2
Enter the end of the range:8

number is even
number is odd
number is even
number is odd
number is even
number is odd
number is even

sum of all numbers from start to end is 35
Select an option:
1.Generate a pattern:
2.Analyzer a Range of Numbers:
3.exit:
Enter Your choice:3

Exiting the program. Goodbye!
```