```
select an option:
1. generate a pattern
2. analyze a range of numbers
3. exite
enter your choice: 1
enter number of rows: 5

pattern
*
**
***
****
*****

select an option:
1. generate a pattern
2. analyze a range of numbers
3. exite
enter your choice: 12
invalid choice , plzz try one more time

select an option:
1. generate a pattern
2. analyze a range of numbers
3. exite
enter your choice: 2
enter start number: 5
enter end number: 10

5 is odd

sum of all numbers: 5
6 is even

sum of all numbers: 11
7 is odd

sum of all numbers: 18
8 is even

sum of all numbers: 26
9 is odd

sum of all numbers: 35
10 is even

sum of all numbers: 45

select an option:
1. generate a pattern
2. analyze a range of numbers
3. exite
enter your choice: 3

exiting the program, have a good day
PS C:\Users\yaksh>
```