**Problem Statements**

1. Write a program to input X number of integers from user. Program should take value of X from user. Once user input all the numbers display sum, count, average, minimum and maximum number of the cube of all the entered numbers. Please apply following conditions to the input numbers:
   1. Number should only be a positive prim number, if entered a negative number, the program should prompt an error and take that number again.
   2. Number should not be greater than 999
   3. Number should not be between 71 and 82
   4. Number should not be any multiple of 3
2. Write a program to display the pattern like isosceles triangle using an asterisk. Also, take input for number of rows of the triangle.  
   **Example for input value 5**  
    \*  
    \* \* \*  
    \* \* \* \* \*  
    \* \* \* \* \* \* \*  
   \* \* \* \* \* \* \* \* \*
3. Write a program to make such a pattern like right angle triangle with number increased by 1  
   1  
   2 3  
   4 5 6  
   7 8 9 10
4. Write a program to find the sum of the following series:

Take value of x from user

1. Write a program to find the sum of the following series:  
   Take value of x as input.
2. Write a program to find the sum of the series 1 +11 + 111 + 1111 + .. n terms. Take value of n as input
3. Write a program to display the pattern like a diamond using an asterisk. Also, take input for number asterisks in the longest row of the diamond, the central one.  
    **Example for input value 9**  
    \*  
    \* \* \*  
    \* \* \* \* \*  
    \* \* \* \* \* \* \*  
   \* \* \* \* \* \* \* \* \*  
    \* \* \* \* \* \* \*  
    \* \* \* \* \*  
    \* \* \*  
    \*