Beginner Problem Sheet 2

1. What do you know about Jump Statements? Discuss its types. REFER:
    https://www.geeksforgeeks.org/jump-statements-in-c/

2. How to Terminate a Loop. REFER:
    https://www.geeksforgeeks.org/exit-a-loop-in-c/

3. Which Loop runs at least once in C++. Why ? How it differs from while
    loop ? REFER :
    https://www.geeksforgeeks.org/difference-between-while-and-do-while-loop-in-c-c-java/

4. Write a Program to print the numbers starting from 'N' in reverse order
    with difference by 2. Take input 'N' from the user.

5. Write a Program to multiply two numbers without using multiplication(*)
    operator.

6. Write a Program to compute X^n using pow() and without using pow().
    Where X and n are input from User.

7. Write a Program to find Sum of this series up to 'N' terms. Series:
    1+2+4+7+11+16+……….. .Take the number 'N' as input from the user.

8. Write a Program to Count Digits of a Number .

9. Write Algorithm to find Sum and Product of Digits of a number. Code the
    same algorithm along with.

10. Write a Program to calculate Sum of digits of a Number until sum is
    Reduced to only 1 digits. For example: if N = 538769 $\rightarrow$ 38 $\rightarrow$ 11 $\rightarrow$ 2,
    final output will be 2.

11. Write the following using if-else statement.
    ```
    x += a<b ? (-x) :100;
    ```

12. Write the Following code using a single if-statement.

```
if(i==3)
    if(j==k)
        if(l<m)
            z = 100;
```