C++ LOOPING STRUCTURE

1. Write a program that prints the following output. 1

```
1      2
1      2      3
1      2      3      4
1      2      3      4      5
```

2. Write a program that prints the following output.

```
1      2    3      4       5
2      4    6      8       10
3      6    9      12      15
4      8    12     16      20
5      10   15     20      25
```

3. Write a program that prints the following output.

```
1      2      3      4      5
1      3      5      7      9
1      4      7      10     13
1      5      19     13     17
```

4.   Write a program that prints the following output.

```
1
3      5
7      9      11
13     15     17     19
21     23     25     27     29
```

5.   Write a program to find out either the number is prime or not without using break and continue statements.

6.   Write a program that print out following series.

```
1      -4      7      -10...........-40
```

7.   Write a program that input a number from user using for loop. It displays the number if it is greater than zero. Otherwise it inputs the next number using continue statement.

8.   Write a program that shows the following output.

```
1=1
1+2=3
1+2+3=6
1+2+3+4=10
1+2+3+4+5=15
```

9.   Write a program to add first seven terms of the following series using a for loop:

1/1! +2/2! +3/3! +......

10. Write a program to print all prime numbers from 1 to 300.

11. Write a program to print all the ASCII values and their equivalent characters using a while loop. The ASCII values vary from 0 to 255.

12. Write a program to find either a number is fibonacci or not.

13. Write a program to take number and find out either number is perfect or not.

14. Write a program which finds either number is palindrome or not.

15. Write a program to check number is Armstrong or not?