

## LOOP LEVEL 1

1. Write a program that keeps taking input (integers) until the user enters -1. (Use while or do-while loop)
2. Write a program that keeps taking input (character) until the user enters a dot '.'.
3. Write a program that displays the following number sequence. Make sure there is no extra comma.

0, 1, 2, 3, ..., 99

4. Write a program that displays the following number sequence. Make sure there is no extra comma.

2, 2.25, 2.50, 2.75, ..., 4

5. Write a program that displays the following character sequence.

a, b, c, ..., z

6. Write a program that displays the following number sequence.

1, 3, 5, 7, ..., 73

7. Take two integers from the user and display all the integers between them.

INPUT	OUTPUT
5 10	5, 6, 7, 8, 9, 10
19 27	19, 20, 21, 22, 23, 24, 25, 26, 27
0 0	0

8. Take two integers from the user and display all the odd numbers between them.

INPUT	OUTPUT
4 15	5, 7, 9, 11, 13, 15
8 8	
46 56	47, 49, 51, 53, 55

9. Write a program that takes a positive number from the user and displays that many asterisks \*.

INPUT	OUTPUT
7	* * * * *
10	* * * * *

10. Write a program that displays the following series and computes its sum. Display all the terms and the sum. Make sure there is no extra plus sign at the end.

$$1+2+3+\dots+100=?$$

11. Write a program that displays the following series and computes its sum. Display all the terms and the sum. Make sure there is no extra plus sign at the end.

$$2+4+8+16\dots+1024=?$$

12. Write a program that counts the number of digits in a given integer.

INPUT	OUTPUT
579	Number of digits: 3
0	Number of digits: 1
1784012	Number of digits: 7

13. Write a program that takes a number (integer) from the user and displays the reversed number.

INPUT	OUTPUT
528	Reversed number: 825
25	Reversed number: 52
1	Reversed number: 1

14. Take two integers from the user and display all the numbers between them that are divisible by 7.

INPUT	OUTPUT
10 50	14, 21, 28, 35, 42, 49
1 5	
0 7	0, 7

15. Write a program that takes 10 numbers from the user and find their average (you must use a loop).

INPUT	OUTPUT
1 2 3 4 5 6 7 8 9 10	Average: 5
23 54 65 11 0 92 55 75 41 82	Average: 49.8