

## Assignment On Iteration (Loop)

1. Write a program that uses a loop to print the numbers from 101 to 110.
2. Write a program that uses a loop to print the numbers from 10 to 1 in descending order.
3. Write a program to accept a number from the user and print that number of \* on screen.
4. Write a program to calculate and print the factorial of a given number.

**Input:** Enter a number: 5

**Output:** The factorial of 5 is: 120

5. Write a program which accept two numbers from user and display first number in second number of times.

Input : First Number: 10

Second Number: 5

Output : 10 10 10 10 10

6. Write a program to print the letters from H to N using a loop. (forward, fixed range)

**Output:** H I J K L M N

7. Write a program to print the letters from w to e using a loop. (reverse, fixed range)

**Output:** W V U T S R Q P O N M L K J I H G F E

8. Write a program to print the letters in user specified range using a loop. (forward or reverse range, variable range)

**Input:** Enter start letter: K

Enter end letter: F

**Output:** K J I H G F

9. Accept character from user. If it is capital then display all the characters from the input characters till Z and if input character is small then print all the characters in reverse order till a. In other cases, return directly.

Input : S

Output : S T U V W X Y Z

Input : k

Output : k j i h g f e d c b a

Input : 8

Output : invalid

10. Write a program to calculate the sum of 10 numbers inputted by the user.

**Input:** Enter 10 numbers: 3, 7, 4, 8, 5, 9, 2, 6, 5, 3

**Output:** The sum is: 52

## Assignment On Iteration (Loop)

11. Write Program to find maximum no. from 7 inputted numbers.

**Input:** Enter 7 numbers: 3, 1, 4, 1, 5, 9, 2

**Output:** The maximum number is: 9

12. Write Program to find minimum no. from 7 inputted numbers.

**Input:** Enter 7 numbers: 3, 1, 4, 1, 5, 9, 2

**Output:** The minimum number is: 1

13. Write Program to find minimum & maximum no. from 10 inputted numbers.

**Input:** Enter 10 numbers: 3, 7, 4, 8, 5, 9, 2, 6, 5, 3

**Output:** Minimum number is: 2, Maximum number is: 9

14. Write Program to make sum of numbers till user enter zero or negative number.  
(Use break/continue & unconditional loop).

15. Create a program to print the multiplication table of a given number.

16. Write a program to print the reverse multiplication table of a given number.

17. Write Program to display tables in range 7 to 13.

18. Write Program to display tables in range 27 to 19.

19. Write Program to display table of numbers of any given range (forward or reverse).

20. Write program to accept numbers from user as x and y and print  $x^y$ .

Input: Enter x: 2

Enter y: 3

Output:  $2^3 = 8$

21. Write to program to check whether a given number is prime or not.

Input: Enter a number: 7

Output: The number 7 is prime.

22. Write Program to print Fibonacci series from 0 to N, Accept N from user.

Input: Enter N: 15

Output: 0 1 1 2 3 5 8 13

23. Write Program to convert given Decimal Number to Binary.

Input: Enter a decimal number: 25

Output: The binary representation of 25 is: 11001

24. Write Program to convert given Binary Number to Decimal.

Input: Enter a binary number: 1010

Output: The decimal representation of 1010 is: 10

## Assignment On Iteration (Loop)

25. Write a program which accept number from user and display its factors in decreasing order.

Input: Enter a number: 12

Output: The factors of 12 are: 12, 6, 4, 3, 2, 1

26. Write a program which accept number from user and display all its non-factors.

Input: Enter a number: 12

Output: The non factors of 12 are: 5 7 8 9 10 11

27. Write a program which accept number from user and display its multiplication of factors.

Input : Enter a number: 12

Output : Multiplication is 1728      (1 \* 2 \* 3 \* 4 \* 6\*12)

