**C# Sharp For Loop : Exercises, Practice, Solution**

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C# Sharp For Loop [83 exercises with solution]

**1.** Write a program in C# Sharp to display the first 10 natural numbers. Go to the editor

*Expected Output* :

1 2 3 4 5 6 7 8 9 10

Click me to see the solution

**2.** Write a C# Sharp program to find the sum of first 10 natural numbers. Go to the editor

*Expected Output* :

The first 10 natural number is :

1 2 3 4 5 6 7 8 9 10

The Sum is : 55

Click me to see the solution

**3.** Write a program in C# Sharp to display n terms of natural number and their sum.Go to the editor Test Data : 7

*Expected Output* :

The first 7 natural number is :

1 2 3 4 5 6 7

The Sum of Natural Number upto 7 terms : 28

Click me to see the solution

**4.** Write a program in C# Sharp to read 10 numbers from keyboard and find their sum and average. Go to the editor Test Data :

Input the 10 numbers :

Number-1 :2

...

Number-10 :2

*Expected Output* :

The sum of 10 no is : 51

The Average is : 5.100000

Click me to see the solution

**5.** Write a program in C# Sharp to display the cube of the number up to given an integer. Go to the editor Test Data :

Input number of terms : 5

*Expected Output* :

Number is : 1 and cube of the 1 is :1

Number is : 2 and cube of the 2 is :8

Number is : 3 and cube of the 3 is :27

Number is : 4 and cube of the 4 is :64

Number is : 5 and cube of the 5 is :125

Click me to see the solution

**6.** Write a program in C# Sharp to display the multiplication table of a given integer. Go to the editor Test Data :

Input the number (Table to be calculated) : 15

*Expected Output* :

15 X 1 = 15

...

...

15 X 10 = 150

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**7.** Write a program in C# Sharp to display the multiplication table vertically from 1 to n. Go to the editor Test Data :

Input upto the table number starting from 1 : 8

*Expected Output* :

Multiplication table from 1 to 8

1x1 = 1, 2x1 = 2, 3x1 = 3, 4x1 = 4, 5x1 = 5, 6x1 = 6, 7x1 = 7, 8x1 = 8

...

1x10 = 10, 2x10 = 20, 3x10 = 30, 4x10 = 40, 5x10 = 50, 6x10 = 60, 7x10 = 70, 8x10 = 80

Click me to see the solution

**8.** Write a program in C# Sharp to display the n terms of odd natural number and their sum. Go to the editor Test Data

Input number of terms : 10

*Expected Output* :

The odd numbers are :1 3 5 7 9 11 13 15 17 19

The Sum of odd Natural Number upto 10 terms : 100

Click me to see the solution

**9.** Write a program in C# Sharp to display the pattern like right angle triangle using an asterisk. Go to the editor The pattern like :

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Click me to see the solution

**10.** Write a program in C# Sharp to display the pattern like right angle triangle with a number. Go to the editor The pattern like :

1

12

123

1234

Click me to see the solution

**11.** Write a program in C# Sharp to make such a pattern like right angle triangle with a number which will repeat a number in a row. Go to the editor

The pattern like :

1

22

333

4444

Click me to see the solution

**12.** Write a program in C# Sharp to make such a pattern like right angle triangle with number increased by 1. Go to the editor The pattern like :

1

2 3

4 5 6

7 8 9 10

Click me to see the solution

**13.** Write a program in C# Sharp to make such a pattern like a pyramid with numbers increased by 1. Go to the editor

1

2 3

4 5 6

7 8 9 10

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**14.** Write a program in C# Sharp to make such a pattern like a pyramid with an asterisk. Go to the editor

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Click me to see the solution

**15.** Write a C# Sharp program to calculate the factorial of a given number. Go to the editor

Test Data :

Input the number : 5

*Expected Output* :

The Factorial of 5 is: 120

Click me to see the solution

**16.** Write a program in C# Sharp to display the n terms of even natural number and their sum. Go to the editor Test Data :

Input number of terms : 5

*Expected Output* :

The even numbers are :2 4 6 8 10

The Sum of even Natural Number upto 5 terms : 30

Click me to see the solution

**17.** Write a program in C# Sharp to make such a pattern like a pyramid with a number which will repeat the number in the same row. Go to the editor

1

2 2

3 3 3

4 4 4 4

Click me to see the solution

**18.** Write a program in C# Sharp to find the sum of the series [ 1-X^2/2!+X^4/4!- .........]. Go to the editor Test Data :

Input the Value of x :2

Input the number of terms : 5

*Expected Output* :

the sum = -0.415873

Number of terms = 5

value of x = 2.000000

Click me to see the solution

**19.** Write a program in C# Sharp to display the n terms of harmonic series and their sum. Go to the editor 1 + 1/2 + 1/3 + 1/4 + 1/5 ... 1/n terms

Test Data :

Input the number of terms : 5

*Expected Output* :

1/1 + 1/2 + 1/3 + 1/4 + 1/5 +

Sum of Series upto 5 terms : 2.283334

Click me to see the solution

**20.** Write a program in C# Sharp to display the pattern like pyramid using an asterisk and each row contain an odd number of an asterisks. Go to the editor

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**21.** Write a program in C# Sharp to display the sum of the series [ 9 + 99 + 999 + 9999 ...]. Go to the editor Test Data :

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Input the number or terms :5

*Expected Output* :

9 99 999 9999 99999

The sum of the series = 111105

Click me to see the solution

**22.** Write a program in C# Sharp to print the Floyd's Triangle. Go to the editor

1

01

101

0101

10101

Click me to see the solution

**23.** Write a program in C# Sharp to display the sum of the series [ 1+x+x^2/2!+x^3/3!+....]. Go to the editor Test Data :

Input the value of x :3

Input number of terms : 5

*Expected Output* :

The sum is : 16.375000

Number of terms = 5

The value of x = 3.000000

Click me to see the solution

**24.** Write a program in C# Sharp to find the sum of the series [ x - x^3 + x^5 - x^7 + x^9 -.....]. Go to the editor Test Data :

Input the value of x : 2

Input number of terms : 5

The sum = 410

Number of terms = 5

The value of x = 2

Click me to see the solution

**25.** Write a program in C# Sharp to display the n terms of square natural number and their sum. Go to the editor 1 4 9 16 ... n Terms

Test Data :

Input the number of terms : 5

*Expected Output* :

The square natural upto 5 terms are :1 4 9 16 25

The Sum of Square Natural Number upto 5 terms = 55

Click me to see the solution

**26.** Write a program in C# Sharp to find the sum of the series 1 +11 + 111 + 1111 + .. n terms. Go to the editor Test Data :

Input the number of terms : 5

*Expected Output* :

1 + 11 + 111 + 1111 + 11111 +

The Sum is : 12345

Click me to see the solution

**27.** Write a C# Sharp program to check whether a given number is perfect number or not. Go to the editor Test Data :

Input the number : 56

*Expected Output* :

The positive divisor : 1 2 4 7 8 14 28

The sum of the divisor is : 64

So, the number is not perfect.

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**28.** Write a C# Sharp program to find the perfect numbers within a given range of number. Go to the editor Test Data :

Input the starting range or number : 1

Input the ending range of number : 50

*Expected Output* :

The Perfect numbers within the given range : 6 28

Click me to see the solution

**29.** Write a C# Sharp program to check whether a given number is an Armstrong number or not. Go to the editor Test Data :

Input a number: 153

*Expected Output* :

153 is an Armstrong number.

Click me to see the solution

**30.** Write a C# Sharp program to find the Armstrong number for a given range of number. Go to the editor Test Data :

Input starting number of range: 1

Input ending number of range : 1000

*Expected Output* :

Armstrong numbers in given range are: 1 153 370 371 407

Click me to see the solution

**31.** Write a program in C# Sharp to display the pattern like a diamond. Go to the editor

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Click me to see the solution

**32.** Write a C# Sharp program to determine whether a given number is prime or not. Go to the editor Test Data :

Input a number: 13

*Expected Output* :

13 is a prime number.

Click me to see the solution

**33.** Write a C# Sharp program to display by Pascal's triangle. Go to the editor

Test Data :

Input number of rows: 5

*Expected Output* :

1 1 1 1 2 1 1 3 3 1 1 4 6 4 1

Click me to see the solution

**34.** Write a program in C# Sharp to find the prime numbers within a range of numbers. Go to the editor Test Data :

Input starting number of range: 1

Input ending number of range : 50

*Expected Output* :

The prime number between 1 and 50 are :

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47

Click me to see the solution

**35.** Write a program in C# Sharp to display the first n terms of Fibonacci series. Go to the editor

Fibonacci series 0 1 2 3 5 8 13 .....

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Test Data :

Input number of terms to display : 10

*Expected Output* :

Here is the Fibonacci series upto to 10 terms :

0 1 1 2 3 5 8 13 21 34

Click me to see the solution

**36.** Write a program in C# Sharp to display the such a pattern for n number of rows using a number which will start with the number 1 and the first and a last number of each row will be 1. Go to the editor

1

121

12321

Click me to see the solution

**37.** Write a program in C# Sharp to display the number in reverse order. Go to the editor

Test Data :

Input a number: 12345

*Expected Output* :

The number in reverse order is : 54321

Click me to see the solution

**38.** Write a program in C# Sharp to check whether a number is a palindrome or not. Go to the editor Test Data :

Input a number: 121

*Expected Output* :

121 is a palindrome number.

Click me to see the solution

**39.** Write a program in C# Sharp to find the number and sum of all integer between 100 and 200 which are divisible by 9. Go to the editor

*Expected Output* :

Numbers between 100 and 200, divisible by 9 :

108 117 126 135 144 153 162 171 180 189 198

The sum : 1683

Click me to see the solution

**40.** Write a C# Sharp Program to display the following pattern using the alphabet. Go to the editor

A

A B A

A B C B A

A B C D C B A

Click me to see the solution

**41.** Write a program in C# Sharp to convert a decimal number into binary without using an array. Go to the editor Test Data :

Enter a number to convert : 25

*Expected Output* :

The Binary of 25 is 11001.

Click me to see the solution

**42.** Write a program in C# Sharp to convert a binary number into a decimal number without using array, function and while loop. Go to the editor

Test Data :

Input a binary number :1010101

*Expected Output* :

The Binary Number : 1010101

The equivalent Decimal Number : 85

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**43.** Write a C# Sharp program to find HCF (Highest Common Factor) of two numbers. Go to the editor Test Data :

Input 1st number for HCF: 24

Input 2nd number for HCF: 28

*Expected Output* :

HCF of 24 and 28 is : 4

Click me to see the solution

**44.** Write a program in C# Sharp to find LCM of any two numbers using HCF. Go to the editor

Test Data :

Input 1st number for LCM: 15

Input 2nd number for LCM: 20

*Expected Output* :

The LCM of 15 and 20 is : 60

Click me to see the solution

**45.** Write a program in C# Sharp to find LCM of any two numbers. Go to the editor

Test Data :

Input 1st number for LCM: 15

Input 2nd number for LCM: 20

*Expected Output* :

The LCM of 15 and 20 is : 60

Click me to see the solution

**46.** Write a program in C# Sharp to convert a binary number into a decimal number using math function. Go to the editor Test Data :

Input the binary number :1010100

*Expected Output* :

The Binary Number : 1010100

The equivalent Decimal Number is : 84

Click me to see the solution

**47.** Write a C# Sharp program to check whether a number is a Strong Number or not. Go to the editor Test Data :

Input a number to check whether it is Strong number: 15

*Expected Output* :

15 is not Strong number.

Click me to see the solution

**48.** Write a C# Sharp program to find Strong Numbers within a range of numbers. Go to the editor Test Data :

Input starting range of number : 1

Input ending range of number: 200

*Expected Output* :

The Strong numbers are :

1 2 145

Click me to see the solution

**49.** Write a C# Sharp program to find out the sum of in A.P. series. Go to the editor

Test Data :

Input the starting number of the A.P. series: 1

Input the number of items for the A.P. series: 10

Input the common difference of A.P. series: 4

*Expected Output* :

The Sum of the A.P. series are :

1 + 5 + 9 + 13 + 17 + 21 + 25 + 29 + 33 + 37 = 190

Click me to see the solution

**50.** Write a program in C# Sharp to convert a decimal number into octal without using an array. Go to the editor Test Data :

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Enter a number to convert : 79

*Expected Output* :

The Octal of 79 is 117.

Click me to see the solution

**51.** Write a program in C# Sharp to convert an octal number to decimal without using array. Go to the editor Test Data :

Input an octal number (using digit 0 - 7) :745

*Expected Output* :

The Octal Number : 745

The equivalent Decimal Number : 485

Click me to see the solution

**52.** Write a program in C# Sharp to find the Sum of GP series. Go to the editor

Test Data :

Input the first number of the G.P. series: 1

Input the number or terms in the G.P. series: 5

Input the common ratio of G.P. series: 2

*Expected Output* :

The numbers for the G.P. series:

1 2 4 8 16 32

The tn terms of G.P. : 16.000000

The Sum of the G.P. series : 63.000000

Click me to see the solution

**53.** Write a program in C# Sharp to convert a binary number to octal. Go to the editor

Test Data :

Input a binary number :1001

*Expected Output* :

The Binary Number : 1001

The equivalent Octal Number : 11

Click me to see the solution

**54.** Write a program in C# Sharp to convert an octal number into binary. Go to the editor

Test Data :

Input an octal number :11

*Expected Output* :

The Octal Number : 11

The equivalent Binary Number : 1001

Click me to see the solution

**55.** Write a program in C# Sharp to convert a decimal number to hexadecimal. . Go to the editor

Test Data :

Input any Decimal number: 79

*Expected Output* :

The equivalent Hexadecimal Number : 4F

Click me to see the solution

**56.** Write a program in C# Sharp to check whether a number can be express as sum of two prime numbers. Go to the editor Test Data :

Input a positive integer: 16

*Expected Output* :

16 = 3 + 13

16 = 5 + 11

Click me to see the solution

**57.** Write a program in C# Sharp to print a string in reverse order. Go to the editor

Test Data :

Input a string to reverse : Welcome

*Expected Output* :

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Reversed string is: emocleW

Click me to see the solution

**58.** Write a C# Sharp program to display alphabet pattern like A with an asterisk. Go to the editor

Reversed string is:Display the pattern like 'A' with an asterisk:

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Click me to see the solution

**59.** Write a C# Sharp program to display alphabet pattern like B with an asterisk. Go to the editor

Display the pattern like 'B' with an asterisk:

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Click me to see the solution

**60.** Write a C# Sharp program to display alphabet pattern like C with an asterisk. Go to the editor

Display the pattern like 'C' with an asterisk:

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Click me to see the solution

**61.** Write a C# Sharp program to display alphabet pattern like D with an asterisk. Go to the editor

Display the pattern like 'D' with an asterisk:

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Click me to see the solution

**62.** Write a C# Sharp program to display alphabet pattern like E with an asterisk. Go to the editor

Display the pattern like 'E' with an asterisk:

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Click me to see the solution

**63.** Write a C# Sharp program to display alphabet pattern like F with an asterisk. Go to the editor

Display the pattern like 'F' with an asterisk:

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Click me to see the solution

**64.** Write a C# Sharp program to display alphabet pattern like G with an asterisk. Go to the editor

Display the pattern like 'G' with an asterisk:

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Click me to see the solution

**65.** Write a C# Sharp program to display alphabet pattern like H with an asterisk. Go to the editor

Display the pattern like 'H' with an asterisk:

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Click me to see the solution

**66.** Write a C# Sharp program to display alphabet pattern like I with an asterisk. Go to the editor

Display the pattern like 'I' with an asterisk:

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**67.** Write a C# Sharp program to display alphabet pattern like J with an asterisk. Go to the editor

Display the pattern like 'J' with an asterisk:

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Click me to see the solution

**68.** Write a C# Sharp program to display alphabet pattern like K with an asterisk. Go to the editor

Display the pattern like 'K' with an asterisk:

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Click me to see the solution

**69.** Write a C# Sharp program to display alphabet pattern like L with an asterisk. Go to the editor

Display the pattern like 'L' with an asterisk:

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Click me to see the solution

**70.** Write a C# Sharp program to display alphabet pattern like M with an asterisk. Go to the editor

Display the pattern like 'M' with an asterisk:

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Click me to see the solution

**71.** Write a C# Sharp program to display alphabet pattern like N with an asterisk. Go to the editor

Display the pattern like 'N' with an asterisk:

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Click me to see the solution

**72.** Write a C# Sharp program to display alphabet pattern like O with an asterisk. Go to the editor

Display the pattern like 'O' with an asterisk:

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Click me to see the solution

**73.** Write a C# Sharp program to display alphabet pattern like P with an asterisk. Go to the editor

Display the pattern like 'P' with an asterisk:

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Click me to see the solution

**74.** Write a C# Sharp program to display alphabet pattern like Q with an asterisk. Go to the editor

Display the pattern like 'Q' with an asterisk:

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Click me to see the solution

**75.** Write a C# Sharp program to display alphabet pattern like R with an asterisk. Go to the editor

Display the pattern like 'R' with an asterisk:

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Click me to see the solution

**76.** Write a C# Sharp program to display alphabet pattern like S with an asterisk. Go to the editor

Display the pattern like 'S' with an asterisk:

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Click me to see the solution

**77.** Write a C# Sharp program to display alphabet pattern like T with an asterisk. Go to the editor

Display the pattern like 'T' with an asterisk:

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Click me to see the solution

**78.** Write a C# Sharp program to display alphabet pattern like U with an asterisk. Go to the editor

Display the pattern like 'U' with an asterisk:

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Click me to see the solution

**79.** Write a C# Sharp program to display alphabet pattern like V with an asterisk. Go to the editor

Display the pattern like 'V' with an asterisk:

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Click me to see the solution

**80.** Write a C# Sharp program to display alphabet pattern like W with an asterisk. Go to the editor

Display the pattern like 'W' with an asterisk:

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Click me to see the solution

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**81.** Write a C# Sharp program to display alphabet pattern like X with an asterisk. Go to the editor

Display the pattern like 'X' with an asterisk:

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Click me to see the solution

**82.** Write a C# Sharp program to display alphabet pattern like Y with an asterisk. Go to the editor

Display the pattern like 'Y' with an asterisk:

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Click me to see the solution

**83.** Write a C# Sharp program to display alphabet pattern like Z with an asterisk. Go to the editor

Display the pattern like 'Z' with an asterisk:

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Click me to see the solution

C# Sharp Code Editor:

**More to Come !**

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