**C# Codes**

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September 16, 2019

C# Codes

# C# program which accepts a number from the user [console] and Display it, if it is Positive

## Code:

using System;

public class Code1{

public static void Main(){

Console.Write("Input an Integer [i.e 90]: ");

int number = Convert.ToInt32(Console.ReadLine());

if (number > 0){

Console.WriteLine(number+" is positive");

}

Console.WriteLine("Encoded by Usama Sarwar");

Console.ReadLine();

}

}

## Output:

Input an Integer [i.e. 90]: **54**  
54 is positive  
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# C# program to get a number from user and display the number with its Reverse

## Code:

using System;

public class Code2{

public static void Main(){

int num, reverse = 0;

Console.Write("Number: ");

num = int.Parse(Console.ReadLine());

while (num != 0){

reverse = reverse \* 10;

reverse = reverse + num % 10;

num = num / 10;

}

Console.WriteLine("Reverse: "+reverse);

Console.WriteLine("Encoded by Usama Sarwar");

Console.ReadLine();

}

}

## Output:

Number: **534534**  
Reverse: 435435  
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# C# program to display/print a Binary Triangle.

## Code:

using System;

public class Code3{

public static void Main(){

int p, lastInt = 0, input;

Console.Write("Height of Binary Triangle: ");

input = int.Parse(Console.ReadLine());

for (int i = 1; i <= input; i++){

for (p = 1; p <= i; p++)

{

if (lastInt == 1){

Console.Write("0");

lastInt = 0;

}

else if (lastInt == 0){

Console.Write("1");

lastInt = 1;

}

} Console.Write("\n");

}

Console.WriteLine("Encoded by Usama Sarwar");

Console.ReadLine();

}

}

## Output:

Height of Binary Triangle: **5**  
1  
01  
010  
1010  
10101  
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# C# program to display/print a diamond by using nested loop

## Code:

using System;

public class Code4{

public static void Main(){

int number, i, k, count = 1;

Console.Write("Enter number of head rows: ");

number = int.Parse(Console.ReadLine());

count = number - 1;

for (k = 1; k <= number; k++)

{

for (i = 1; i <= count; i++)

Console.Write(" ");

count--;

for (i = 1; i <= 2 \* k - 1; i++)

Console.Write("\*");

Console.WriteLine();

}

count = 1;

for (k = 1; k <= number - 1; k++)

{

for (i = 1; i <= count; i++)

Console.Write(" ");

count++;

for (i = 1; i <= 2 \* (number - k) - 1; i++)

Console.Write("\*");

Console.WriteLine();

}

Console.WriteLine("Encoded by Usama Sarwar");

Console.ReadLine();

}

}

## Output:

Enter number of head rows: **5**  
    \*  
   \*\*\*  
  \*\*\*\*\*  
 \*\*\*\*\*\*\*  
\*\*\*\*\*\*\*\*\*  
 \*\*\*\*\*\*\*  
  \*\*\*\*\*  
   \*\*\*  
    \*  
Encoded by Usama Sarwar

# C# program Merge two arrays of same size sorted in ascending order

## Code:

using System;

public class Code5{

public static void Main(){

int[] arr1 = new int[20];

int[] arr2 = new int[20];

int[] arr3 = new int[40];

int s1, s2, s3;

int i, j, k;

Console.Write("Number of elements in Array 1:");

s1 = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter {0} elements in the array :\n",s1);

for(i=0;i<s1;i++){

Console.Write("index[{0}]: ",i);

arr1[i] = Convert.ToInt32(Console.ReadLine());

}

Console.Write("Number of elements in Array 2:");

s2 = Convert.ToInt32(Console.ReadLine());

Console.Write("Input {0} elements in the array :\n",s2);

for(i=0;i<s2;i++){

Console.Write("index[{0}]: ",i);

arr2[i] = Convert.ToInt32(Console.ReadLine());

}

s3 = s1 + s2;

for(i=0;i<s1; i++){

arr3[i] = arr1[i];

}

for(j=0;j<s2; j++){

arr3[i] = arr2[j];

i++;

}

for(i=0;i<s3; i++){

for(k=0;k<s3-1;k++){

if(arr3[k]>=arr3[k+1]){

j=arr3[k+1];

arr3[k+1]=arr3[k];

arr3[k]=j;

}

}

}

Console.Write("\nThe merged array in ascending order is :\n");

for(i=0; i<s3; i++){

Console.Write("{0} ", arr3[i]);

}

Console.Write("\n\n");

Console.WriteLine("Encoded by Usama Sarwar");

Console.ReadLine();

}

}

## Output

Number of elements in Array 1:**5**  
Enter 5 elements in the array :  
index[0]: **9**  
index[1]: **2**  
index[2]: **7**  
index[3]: **4**  
index[4]: **7**  
Number of elements in Array 2:**3**  
Input 3 elements in the array :  
index[0]: **89**  
index[1]: **45**  
index[2]: **65**  
  
The merged array in ascending order is :  
2 4 7 7 9 45 65 89   
  
Encoded by Usama Sarwar