

Csharp programming Questions and answers

Write a program to print diamond shape composed of star (*)?

```
using System;
namespace InterviewQuestions
{
    class StarPattern
    {
        static void Main()
        {
            int Number, i, k, Count =1;

            Console.WriteLine("Please enter number:");
            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.ReadLine();
        }
    }
}
```

Write a program to sort given array?

```
using System;
using System.Linq;

namespace InterviewQuestions
{
    class ArrayDemo
    {
        static void Main()
        {
            int[] Numbers = new int[5];

            Numbers[0] = 100;
            Numbers[1] = 200;
            Numbers[2] = 100;
```

```

        Numbers[3] = 200;
        Numbers[4] = 100;
        Array.Sort(Numbers);

        foreach (var num in Numbers)
        {
            Console.WriteLine(num);
        }
    }
}

```

Write a program to sum given array?

```

using System;
using System.Linq;

namespace InterviewQuestions
{
    class ArrayDemo
    {
        static void Main()
        {
            int[] Numbers = new int[5];

            Numbers[0] = 100;
            Numbers[1] = 200;
            Numbers[2] = 100;
            Numbers[3] = 200;
            Numbers[4] = 100;

            var result = Numbers.Sum();
            Console.WriteLine("Total of Array:{0}", result);
        }
    }
}

```

Write a program to reverse given array?

```

using System;
using System.Linq;

namespace InterviewQuestions
{
    class ArrayDemo
    {
        static void Main()
        {
            int[] Numbers = new int[5];

            Numbers[0] = 100;
            Numbers[1] = 200;
            Numbers[2] = 300;
            Numbers[3] = 400;
            Numbers[4] = 500;
        }
    }
}

```

```

        Array.Reverse(Numbers);
        foreach (var num in Numbers)
        {
            Console.WriteLine(num);
        }
    }
}

```

Write a program to print even number?

```

using System;
namespace InterviewQuestions
{
    class Program
    {
        static void Main(string[] args)
        {
            int i = 0;
            int number;

            Console.WriteLine("Enetr a number:");
            number = int.Parse(Console.ReadLine());

            Console.WriteLine("Even Numbers :");
            for (i = 1; i <= number; i++)
            {
                if (i % 2 == 0)
                {
                    Console.Write(i + " ");
                }
            }
            Console.ReadLine();
        }
    }
}

```

Write a program to print odd number?

```

using System;
namespace InterviewQuestions
{
    class OddNumber
    {
        static void Main()
        {
            int i = 0;
            int Number;

            Console.WriteLine("Please enter a number:");
            Number = int.Parse(Console.ReadLine());

            Console.WriteLine("Odd Numbers :");
            for (i=1; i<=Number; i++)

```

```

        {
            if (i % 2 !=0)
            {
                Console.Write(i + " ");
            }
        }
        Console.ReadLine();
    }
}

```

Write a program to swap numbers?

```

using System;

namespace InterviewQuestions
{
    class SwapNumber
    {
        static void Main()
        {
            int Number1, Number2, temp;

            Console.WriteLine("Please enter First Number ");
            Number1 = int.Parse(Console.ReadLine());
            Console.WriteLine("Please enter Second Number ");
            Number2 = int.Parse(Console.ReadLine());
            Console.WriteLine("Before Swapping Number");
            Console.WriteLine("First Number:" + Number1);
            Console.WriteLine("Second Number:" + Number2 + "\n");
            temp = Number1;
            Number1 = Number2;
            Number2 = temp;
            Console.WriteLine("After Swapping Number");
            Console.WriteLine("First Number:" + Number1);
            Console.WriteLine("Second Number:" + Number2);
            Console.ReadLine();
        }
    }
}

```

Write a program to reverse string?

```

using System;

namespace InterviewQuestions
{
    class ReverseString
    {
        static void Main()
        {
            string SourceString = "", ReverseString = "";
            int Length = 0;

            Console.WriteLine("Enter word you want to reverse:");
            SourceString = Console.ReadLine();

```

```

        Length = SourceString.Length - 1;
        while (Length >= 0)
        {
            ReverseString = ReverseString + SourceString[Length];
            Length--;
        }

        Console.WriteLine("Source String: {0}\nReverse String:{1}",
SourceString, ReverseString);
        Console.ReadLine();
    }
}
}

```

Write a program to reverse number?

```

using System;
namespace InterviewQuestions
{
    class ReverseNumber
    {
        static void Main()
        {
            int Reverse = 0;
            int Number;

            Console.WriteLine("Enter a Number:");
            Number = int.Parse(Console.ReadLine());

            while (Number > 0)
            {
                int remainder = Number % 10;
                Reverse = (Reverse * 10) + remainder;
                Number = Number / 10;
            }
            Console.WriteLine("Reverse Number are {0}", Reverse);
            Console.ReadLine();
        }
    }
}

```

Write a program to find input type number or string?

```

using System;
namespace InterviewQuestions
{
    class UserInputStringOrNumber
    {
        static void Main()
        {
            Console.WriteLine("Please enter your input type:");
            string Input = Console.ReadLine();
            int result = 0;

```

```
    if (int.TryParse(Input, out result))
    {
        Console.WriteLine("Your input {0} is Number", result);
    }
    else
    {
        Console.WriteLine("Your input {0} is String", Input);
    }
}
}
```