```
using System;
using System.Collections.Generic;
public class HelloWorld
    public static void SwitchForGood(string T, string P)
      Console.WriteLine($"Working On {T} and {P} ");
      List<string> whyYou = new List<string>();
       whyYou.Add("Struggle");
       whyYou.Add("900/Month");
       whyYou.Add("Many Following");
       whyYou.Add("To give life for Manoj BHauji");
       whyYou.Add("To Gannya Educate");
whyYou.Add("Don't Drink");
whyYou.Add("Aai/Baba");
       foreach(var varx in whyYou){
       Console.WriteLine(varx );
    }
    public static void Main(string[] args)
        string S = "Temperament";
        string P = "Patience";
        SwitchForGood(S, P);
}
class Bird
    public virtual void fly(){
        Console.WriteLine("Bird can fly");
}
class Parrot : Bird
    public override void fly()
        Console.WriteLine("Parrot can fly");
class Program
    static void Main(string[] args)
        Bird b = new Bird();
        b.fly();
        Bird b1 = new Parrot();
        b1.fly();
Output:
Bird can fly
Parrot can fly
```

```
11
{
    void static print();
12
{
    void print();
Class Implement: I1, I2
    public Implement(
     public i1 = I1;
public i2 = I2;
// prob1 -
    implementingMethod(){
          i1.print();
          i2.print();
    }
    // prob 2-
    I1 l = I1.print();
}
async methodMain(
    await p1.Method1();
    await p2.Method2();
    whenAll(p1.Method1,p2.Method2)
async Method1 (){
await
// sum of evenn numbers in Ling
var even_num = from num in context.numbers
                  where (numbers number %2 == 0)
                   select num;
foreach(number in even_num){
// Top 2 salary by Linq
var highestSalary = (from emp in Employee
                     order by emp.salary Descending
                     select emp).Top(2)
//Checking Palindrom
string word_pal = "madam"
```

```
char [] word_palArr = word_pal.ToCharArray(); //"m","a","d","a","m"
Array.Revers(word palArr);
string reverseWordString = new string(word palArr)
       if( (word_palArr =reverseWordString )){
       Console.WriteLine("This is Palindrom")
///Deloitte
///Table 1 list empploye - Employee
// Table 2 Mapping Manager, Lead - EmployeeDetails
fetch list of employees reporting to "Selnior Manager"
get
var listEmp = from emp in Context.Employee
              Inner Join empD in Context. EmployeeDetails
              On emp.Id = empD.Id
              where empD.ReportM = "Selnior Manager"
              select new { emp.name};
foreach()
//output : Employee Id : A101
//please modify code
public class Employee
private string _id;
public Employee(string Id)
    Id=Id
public void GetDetails( Id){
    Console.Write("Employee Id :" this._Id);
//T0 D0
var obj=new Employee("A101");
var txt=obj.ToString();
Console.Write("txt);
-- Ling
-- select first 3 charecter of Aditya
-- Table employee
select first3 = (from emp in context.employee
                select substring(emp.fname,3)
                select emp
foreach ( employee from first3 )
}
```

int[] arrayNumber = { 1, 2, 3, 4 };

int[] output = new int[arrayNumber.Length];

LINQ query to get the sum of the even numbers from the list:

```
Var sumOfEvenNumbers = from num in context.Number
                        where (numbers number %2 == 0)
                        select num
To write the string as per row pass:
using System;
public class HelloWorld
    public static void ConvertMethod(string s, int numbRow)
        // Calculate the length of each row
        int rowLength = (int)Math.Ceiling((double)s.Length / numbRow);
        // Initialize an array to hold each row
        string[] rows = new string[numbRow];
        // Fill the rows with characters from the string
        for (int i = 0; i < s.Length; i++)
        {
            int rowIndex = i / rowLength;
            if (rowIndex < numbRow)</pre>
            {
                 rows[rowIndex] += s[i];
            }
        }
        // Print the rows
        foreach (var row in rows)
            Console.WriteLine(row);
        }
    }
    public static void Main(string[] args)
        string s = "NHKYFVHGTPMHI";
        int numbRow = 3;
        ConvertMethod(s, numbRow);
How to assign num to List =
int[] num = { 1, 2, 3, 4 };
List<int> listNumbers = new List<int>();
listNumbers.AddRange(num);
arrayNumber = {1,2,3,4} I should get the multiplication other place number suppose at 1th place
need multiplication of other like 2 * 3 * 4 = 24 at 2nd place 1 * 3 * 4 = 12 oputput should be = {24 12
8 6}
```

SLB Client Interview -

To count the number of times two adjacent 1s appear in a given 2D array (either side by side in a row or up and down in a column), you can implement the following code in C#. Here's how you can do it:

```
using System;
class Program
    static void Main()
        int[,] matrix =
            { 1, 1, 0, 1 },
            { 1, 0, 1, 0 },
            { 1, 1, 0, 0 }
        };
        int count = CountAdjacentOnes(matrix);
        Console.WriteLine($"Number of adjacent 1s: {count}");
    static int CountAdjacentOnes(int[,] matrix)
        int rows = matrix.GetLength(0); // gives number of rows = 3
        int cols = matrix.GetLength(1); // gives number of columns = 3
        int count = 0;
        // Check for horizontal adjacent 1s
        for (int i = 0; i < rows; i++)
            for (int j = 0; j < cols - 1; j++)
                if (matrix[i, j] == 1 \&\& matrix[i, j + 1] == 1)
                    count++;
            }
        // Check for vertical adjacent 1s
        for (int i = 0; i < rows - 1; i++)
            for (int j = 0; j < cols; j++)
                if (matrix[i, j] == 1 && matrix[i + 1, j] == 1)
                    count++;
            }
```

```
}
        return count;
}
Ascendion -
Input => wwffwfeeaf
Output => w3f4e2a1
string inputFinder = "wwffwfeeaf"
public FindOccurence(string inputFinder){
 char [] InputArr = Array.ToChar(inputFinder);
"w","w","f","g","e","e","g","f"
List<string> outputFinder = new List<string> outputFinder{};
  public int counter = 0;
   for(int i=0 ; i <= InputArr.Length ; i++){</pre>
         for(int j=i+1 ; j <= InputArr.Length ; j++)</pre>
             if(InputArr[i] == InputArr[j] ){
                 outputFinder.Add(nputArr[i]);
                 counter ++;
                 outputFinder.Add(counter);
             }else{
                 counter = 1;
             return outputFinder;
             counter = 0;
   }
   string Output = Array.Join(outputFinder);
   return Output;
public class A
     static A(){
       Console.WriteLine ("Static ");
      private A(){
       Console.WriteLine ("private ");
     public A(int num){
       Console.WriteLine ("public ");
public class B
    public static void Main(string[] args)
       A obj = new A();
       Console.WriteLine ("Main");
- We cant call Private Constructor
```

```
    Static will run first and then Public
    We should pass argument in Public Constructor
        A obj= new A(123);
    So Output will be
    Static
    Public
    Main
```

give me sort of array number input without using Array. Sort in C#

```
class Program
    static void Main()
         int[] numbers = { 5, 3, 8, 4, 2, 7, 1, 6 };
         // Bubble Sort
         for (int i = 0; i < numbers.Length - 1; i++)
              for (int j = 0; j < numbers.Length - 1 - i; <math>j++)
                   if (numbers[j] > numbers[j + 1])
                       // Swap the elements
                       int temp = numbers[j];
numbers[j] = numbers[j + 1];
                       numbers[j + 1] = temp;
              }
         // Output the sorted array
         Console.WriteLine("Sorted array:"); foreach (int num in numbers)
         {
              Console.Write(num + " ");
    }
```