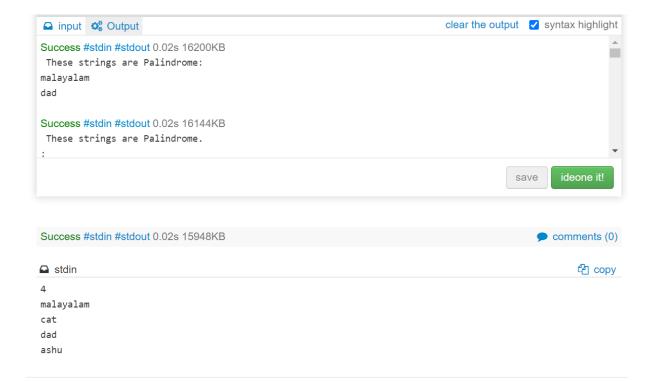# C# ASSIGNMENT-DAY-2

NAME: VISHALI M

1. Create a Non-Static method called "GetPalindromes" which accepts input as array of strings . and this method should check if any of strings are palindrome and return list of palindromes and print them on console

```
using System;

public class Test{

    public static bool IsPalindrome(string text)
    {
      if (text.Length <= 1)
         return true;
      else
      {
         if ( text[0] != text[ text.Length - 1 ] )
            return false;
         else
            return IsPalindrome( text.Substring( 1, text.Length-2 ) );
      }
    }
     public static void Main()
     {


       bool tf;

       int n=Convert.ToInt32(Console.ReadLine());
       string[] str1= new string[n];// this is the input array with many strings
       for(int i=0;i<n;i++){
            str1[i] = Console.ReadLine();
       }


       Console.WriteLine(" These strings are Palindrome.\n:");
       for(int i=0;i<n;i++){
       tf=IsPalindrome(str1[i]);
```

```
        if (tf==true)
                {
                Console.WriteLine(str1[i]);
                }
        }


        }


}
```

```
input   Output                                    clear the output  ✓ syntax highlight

Success #stdin #stdout 0.02s 16200KB
 These strings are Palindrome:
malayalam
dad

Success #stdin #stdout 0.02s 16144KB
 These strings are Palindrome.
:

                                                    save    ideone it!
```

```
Success #stdin #stdout 0.02s 15948KB                      comments (0)

 stdin                                                          copy
4
malayalam
cat
dad
ashu
```
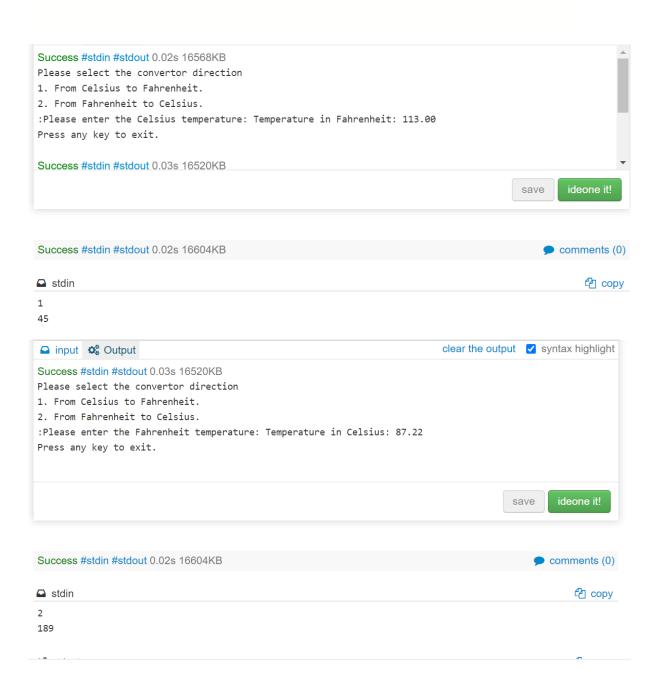
2. Create a static class called **TemperatureConverter.** Which contains two methods that convert temperature from Celsius to Fahrenheit and from Fahrenheit to Celsius: Return value of these methods should be of type "double"


```
using System;
public static class TemperatureConverter
{
   public static double CelsiusToFahrenheit(string temperatureCelsius)
   {
     // Convert argument to double for calculations.
     double celsius = Double.Parse(temperatureCelsius);

     // Convert Celsius to Fahrenheit.
     double fahrenheit = (celsius * 9 / 5) + 32;
```

```csharp
            return fahrenheit;
        }

        public static double FahrenheitToCelsius(string temperatureFahrenheit)
        {
            // Convert argument to double for calculations.
            double fahrenheit = Double.Parse(temperatureFahrenheit);

            // Convert Fahrenheit to Celsius.
            double celsius = (fahrenheit - 32) * 5 / 9;

            return celsius;
        }
    }

class MainClass {
  public static void Main (string[] args) {
  // Console.WriteLine ("Hello World");
   Console.WriteLine("Please select the convertor direction");
        Console.WriteLine("1. From Celsius to Fahrenheit.");
        Console.WriteLine("2. From Fahrenheit to Celsius.");
        Console.Write(":");

        string selection = Console.ReadLine();
        double F, C = 0;

        switch (selection)
        {
            case "1":
                Console.Write("Please enter the Celsius temperature: ");
                F = TemperatureConverter.CelsiusToFahrenheit(Console.ReadLine());
                Console.WriteLine("Temperature in Fahrenheit: {0:F2}", F);
                break;

            case "2":
                Console.Write("Please enter the Fahrenheit temperature: ");
                C = TemperatureConverter.FahrenheitToCelsius(Console.ReadLine());
                Console.WriteLine("Temperature in Celsius: {0:F2}", C);
                break;

            default:
                Console.WriteLine("Please select a convertor.");
                break;
        }

        // Keep the console window open in debug mode.
        Console.WriteLine("Press any key to exit.");
        Console.ReadKey();
```

```
    }
}
```

Success #stdin #stdout 0.02s 16568KB
Please select the convertor direction
1. From Celsius to Fahrenheit.
2. From Fahrenheit to Celsius.
:Please enter the Celsius temperature: Temperature in Fahrenheit: 113.00
Press any key to exit.

Success #stdin #stdout 0.03s 16520KB

save   ideone it!

Success #stdin #stdout 0.02s 16604KB   comments (0)

stdin   copy

1
45

input   Output   clear the output   syntax highlight

Success #stdin #stdout 0.03s 16520KB
Please select the convertor direction
1. From Celsius to Fahrenheit.
2. From Fahrenheit to Celsius.
:Please enter the Fahrenheit temperature: Temperature in Celsius: 87.22
Press any key to exit.

save   ideone it!

Success #stdin #stdout 0.02s 16604KB   comments (0)

stdin   copy

2
189

3. Create a Static method called "LastWord" which will accepts three parameters position , stringVariable, charToParse and return type as string. for example if I pass position as 1 , stringvariable as "welcome prathap" and charToParse as '<whitespace>' , it should split string based on charToParse and get first word . if there is no word in given position send message else return word in that position.

```
using System;

public class Test
{
    public class Utility{
            public static void LastWord(int position,string stringVariables,char
charToParse){
                    Console.WriteLine(position+" "+stringVariables+"
"+charToParse);
            }
    }
    public static void Main()
    {
            Utility.LastWord(1,"Ashu Neelansh",' ');
            String firstWord=stringVariables.Split(charToParse)[position];
            Console.WriteLine("The "+ position +"Word is:"+ firstWord);

    }
}
```

input ⚙ Output   clear the output ☑ syntax highlight

Success #stdin #stdout 0.02s 16288KB
1 Ashu Neelansh
The firstWord is:Ashu