

## 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;
    }
}
    
```

```

        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 , stringValue, charToParse and return type as string. for example if I pass position as 1 , stringValue 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="Ashu Neelansh".Split(' ')[0];
        Console.WriteLine("The firstWord is:"+ firstWord);
    }
}
```

input

Output

clear the output

☒ syntax highlight

Success #stdin #stdout 0.02s 16288KB

1 Ashu Neelansh

The firstWord is:Ashu