**C# Assignment**

**Day 2**

(Covers Math Class, String Classes, Wrapper Classes & Format Classes, Arrays)

1. Write C# program which uses the various methods of the Math Class.
2. Create a String “C# is platform independent”. Find its length, extract every word, concatenate it with “also object oriented” and find the position of the first occurrence of the character p.
3. Create two string variables containing your name. Compare them with == as well as equals method. Print and observe the results.
4. Store your company name in a string variable, your name in a string buffer variable. Print them with proper labels. Convert company name to string buffer object and your name to string object. Print them with proper labels.
5. Create class Person with standard information. Include a ***String Welcome(String location)***

method which accepts a city name as String. The method will convert the location to a StringBuffer object, concatenate it with the name and generate a welcome message and return it as String.

1. Define an array of int size 5.Assign distinct values to each of its elements. Print the values. Copy the array to another array using System.ArrayCopy method and print the new array values. For printing the array use a method. (for this and all the following assignments)
2. Define an array arr1 of int size 10. Assign distinct values to each of its elements. Print the values. Declare another array arr2 of type int. Assign arr1 to arr2. Print the values. Increment arr2[3], arr2[7] and arr2[9] by twice the existing value. Print arr2 and also arr1 contents. Observe the results
3. Create a program which uses all the methods of the String class and observe the behavior.
4. Create a two dimensional array which stores the roll no and marks of 10 students. Accept values through use input. Calculate the average mark. Print the rollno , marks and the average mark for every student properly formatted.
5. Create a two dimensional array with 3 rows but with varying no. of columns in each row. Initialize it with distinct values and print the elements of the array. (1st row will have 5 columns, 2nd row 4 columns and third row 2 column)
6. ClientMarketing Inc. maintains the list of client names and their mobile nos. For some clients, the title is missing (Mr. /Ms.). Mobile nos. for some also have wrong no.of digits. Create the data with discrepancy first (atleast 50%). Inspect every entry and correct. Ask the user for gender to provide the title. Print before and after changes and verify. Assume a client list of 20.
7. A departmental store needs to maintain the monthly sales of each product. It also needs to know the increase/ decrease percentage of sales for each product. Collect the sales data for a year from the user for 5 products. Perform the required analysis and print the results in a matrix format with appropriate titles.