**Assignemnt-01**

1. Design an Employee class which is derived from person class having common behaviour of the employees. The employees can exhibit different behaviour like C# expert, Java expert or expert in both. Develop an application which accepts an employee array and counts the number of employee expert in C#, expert in Java and experts in both. Make suitable assumptions.
2. Write a C# program that has class “TwoDshape” with fields dim1 and dim2 and a method area(). “Triangle” and “Rectangle” inherits from “TwoDshape” and override method area() to calculate area of triangle and rectangle respectively. Instantiate objects of all classes.
3. Write the following classes with appropriate members: customer that holds all the bank customer details. An interface loan to calculate the premium and other details. Two subclasses loan account and account to create customers with and without loan respectively. Show the implementation for this problem in C#.
4. Write a C# program to sort and reverse an array of five elements using sort() and reverse() methods.
5. Explain Const and Readonly variable with programming example
6. Explain GC optimization process in detail with neat diagram.
7. Define interface. how it is declared and accessed? Explain with example.
8. List and explain access specifies with programming example.
9. Define enum with syntax. Write a C# program that accepts a default value as zero for weekday
10. List and explain different methods and properties supported by Array class.

This Assignment is for the below mentioned USN students

**A section: USN 1AYIS 001 to 1AYIS 033(ASHISH VERMA will prepare soft copy)**

**B section: USN 1AYIS058 to 1AYIS092(RAKSHITHA MJOGI will prepare soft copy)**