

**Paper Code:** BCADSE 5.6

**Paper title:** Elective-I: a. C# Lab

**Teaching Hours –** 4hrs/week

**Marks:** Th-80+IA-20

**Credits:** 2

#### **Assignment Programs:**

#### **Journal Programs:**

1. Write a C# program to show the machine details like machine name, Operating System, Version, Physical Memory and calculate the time since the Last Boot Up.(Hint: Use System. Environment Class)
2. Write a C# Sharp program to calculate roots of Quadratic Equation
3. Write a program in C# Sharp to count a total number of alphabets, digits and special characters in a string.
4. Demonstrate operator overloading two complex numbers.
5. Write a program to implement multilevel inheritance
6. Write a object oriented program to demonstrate bank transaction. Include methods for amount deposit, amount withdrawal and display.
7. Write a program to demonstrate System exception.
8. Draw a square with sides 100 pixels in length. Then inscribe a circle of radius 50 inside the square. Position the square and the inscribed circle in the middle of the screen.
9. Write a program that inputs the coordinates of three mouse clicks from the user and then draws a triangle in the output window using those three points.

#### **Practice Programs :**

1. Write a program to demonstrate Application exception.
2. Create an application to simulate the working of Font Dialog box using list boxes, label and button controls
3. Write a Program to insert the data in the database having fields such as Roll No, Name, Age and ContactNo using Execute-Non Query.
4. Write a Program to input Roll No and display the corresponding student details using database
5. Write a program to demonstrate Directory Info and File Info.
6. Write a program to implement Stream Reader and Stream Writer classes.