**Lab Practice Guide – 1**

1. Write a C# program to display a message “Wel come to Enosis”.
2. Write a C# program to input Five Strings as command line input and display them in five lines.
3. Design a menu based calculator program to perform following operation. (Addition, Subtraction, Multiplication and Division)
4. What is boxing and unboxing? Write a program showing the use of boxing and unboxing.
5. Input two numbers and list all the prime number between them.
6. Write a C# program to input a Decimal number as command line input and display equivalent octal number of the Decimal number.
7. Input name and mark in three subject, find total ‘%’ and grade of the student as per following formula.

If percentage >= 60 then Grade A

If percentage >= 50 and percentage < 60 then Grade B

If percentage >= 40 and percentage < 50 then Grade C

Else Fail.

1. Write a program to add all odd numbers between 0 to 10.
2. Admission to a professional course is subject to the following conditions. [ math >= 50] and

 [Science >=50] and

 [Chemistry >= 50]

 Input mark in individual subject and display He/she is eligible or not as per as condition.

1. Write a program to get following output.

 [Floyd Triangle]

 1

 2 3

 4 5 6

 7 8 9 10

**Lab Practice Guide – 2**

1. Write a program using while loop to reverse a number.
2. Input weekday name from key board and print week day serial number using switch case statement.
3. Explain the use of following jump statement (break, continue, goto) in a single program.
4. Write a program to get following output.

 1

 2 2

 3 3 3

 4 4 4 4

 5 5 5 5 5

1. Write a program to get following output.

 5

 4 5

 3 4 5

 2 3 4 5

 1 2 3 4 5

1. Write a program to Sort and reverse an array.
2. Write a program that accepts a shopping list of five items from the command line stores them in string type array and then prints the list in alphabetical order.
3. Create an Arraylist of 5 odd numbers and count the elements and Capacity of the Arraylist. Now remove two elements from the beginning and replace them by two prime numbers.

 **Lab Practice Guide – 3**

1. Distinguish between String and StringBuilder class. Give an example of string concatenation or string addition.

1. What are regular expressions and how use them in a program.
2. Write a program to calculate number of occurrence of a character in a string.
3. Write a program that count number of words in sentence.
4. What is a constructor and explain three characterstics.
5. What is static constructor?
6. Distinguish between constant and read only members by giving an example.
7. How do you declare and invoke a method in C#. State the difference between instance method and static method.
8. Write 4- difference ways to use main method. List them and state the significance of each of them.
9. Distinguish between ref and out parameters with example.
10. What is method overloading give an example of it?

**Lab Practice Guide – 4**

1. Create an abstract class called shape, containing an abstract method called area(). Now declare circle class, triangle class, inherit them from abstract class.Implement the area () method in the classes for finding the area.
2. Write a program showing the use of delegates.
3. Write a multithreaded program in c#.
4. Display list of all the drives in your system, directory structure of each drive using DriveInfo and DirectoreInfo class in System.IO namespace.
5. Display all the classes, constructors, methods in your assembly using concept of reflection.
6. Write a program that accepts Date of Birth of a Student and Display Years, months and Days between current date.

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