

# *Lab Manual*

*Of*

## *C# and .Net Framework*



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Sr.No	Name of Practical
1	Introduction To .Net Framework And Anatomy Of An ASP.NET Page.
2	Forms And HTML Server Controls
3	Procedure To Store Information In C#
4	Use Of Structured Data Type Array ,Structs And Enumeration
5	Use Of Control Structure And Procedural Programming
6	Use Of Function
7	Event Driven Programming And Post Back Statements
8	Introduction To Objects
9	Shared Members And Class Relationship
10	Objects In ASP.NET
11	Objects And Structured Data
12	Reading From Data Sources
13	Manipulating Data Sources

### *1. Introduction to .Net Framework and Anatomy of an ASP.NET page.*

#### **Objective**

1. What is .Net?
2. Explain .Net base Classes
3. What is Common Intermediate language.
4. How Insert ASP.NET Code into our WEB Pages.
5. What is Inline Code Blocks?

### *2. Forms and HTML Server Controls*

#### **Objective**

1. What is Action Attribute?
2. What is method Attribute?
3. What is GET Method?
4. What is POST Method?
5. Enlist various HTML Form Controls
6. Explain various .Net Server Controls

### *3. Procedure to store information in C#*

#### **Objective:**

1. What is variable?
2. Enlist various Data Types.
3. Enlist Various Operators
4. Conversion between data types

### *4. Use of Structured Data Type Array, Structs and Enumeration*

#### **Objective**

1. What is Multidimensional Array?
2. What is Jagged Array?
3. What is struct?
4. What is Enumeration?

## *5. Use of Control Structure and procedural programming*

### **Objective**

1. What is if Statement?
2. What is Conditional and Ternary Operator?
3. How we compare two strings?
4. Conditional statement using Switch-Case
5. Explain for Loop
6. Explain While Loop
7. Explain do-while Loop.
8. Explain foreach Loop
9. Break and Continue Statement

## *6. Use of Function*

### **Objective**

1. How we return value from function?
2. How we control variable scope?

## *7. Event Driven Programming and Postback Statements*

### **Objective**

1. What is an Event?
2. Explain Events in HTML
3. Explain Server Control Events in HTML
4. ASP.Net Button server Control

## *8. Introduction to Objects*

### **Objective**

1. Object Properties
2. Object Methods
3. How use methods and properties
4. How Initialize Object with Constructors
5. When methods are known as Overloaded?
6. What is Operator Overloading?

## *9. Shared members and class relationship*

### **Objective**

1. name three different types of class relationship and give examples of when it would be appropriate to use each one?
2. Explain Inheritance
3. What is Boxing and Unboxing?
4. What is user Defined Conversions.

## *10. Objects in ASP.NET*

### **Objective**

1. How to redirect the user to another page
2. How to handle session state.
3. What are cookies?
4. How do cookies work?

## *11. Objects and Structured data*

### **Objective**

1. What is collection?
2. What is arrayList?
3. What is hashtable?
4. What is Sorted List?
5. Describe a situation in which you would use each of the following and state why that choice is the best
  - a) Arrays
  - b) ArrayList
  - c) Hashes
  - d) Sorted lists

## *12. Reading From data Sources*

### **Objective**

1. .Net data providers.
2. ADO.Net Objects
3. Connection Object
4. The Command Object and data Reader
5. Use of DataGrid
6. The DataSet and DataTable Objects

## *13. Manipulating Data Sources*

### **Objective**

1. various Methods of Updating data
2. Adding,changing and deleting rows.
3. dataAdaptor Object
4. CommandBuilder Object
5. Use of Stored Procedure
6. Direct SQL Command