tuduction to C# Programming

= C++ language is breneurce as 'c sharp'or 'see sharp' is a complete object oriented programming language (00PS) developed by Microsoft Corporation to become a key or . Net software development platform.

F The C# language is based on c++ language but it is mostly developed on the lines of Microsoft Visual basic.

This principle designer of c# language Anders Hazelesberg

FCH was designed to take advantage of Common language nunlime (CLR).

All applications weather in the required CLR to run.

If All the Net programming language have the Net framework class library. The Net class library also support functions such as file id, database Operations, XML and SOAP (Simple Object Access pro

Example of c# -:

public class class!

Static void Main (string [] args)

System Console . Write Line ("Hello");

3

Characteristics of C# language

i) Object Orwented Design:

C# contain completely object Oriented features ex golden principle of object orientation, inheritance encapsulation, overloading, overvidding, kelymorphism has made C# knogramming a great choice of . Net application developers.

Although, C# has components of high level business Object and wide range of component to system level software applications. C# construct these component into XML web source which permits them to be involved across the internet from any language surring on any operating system

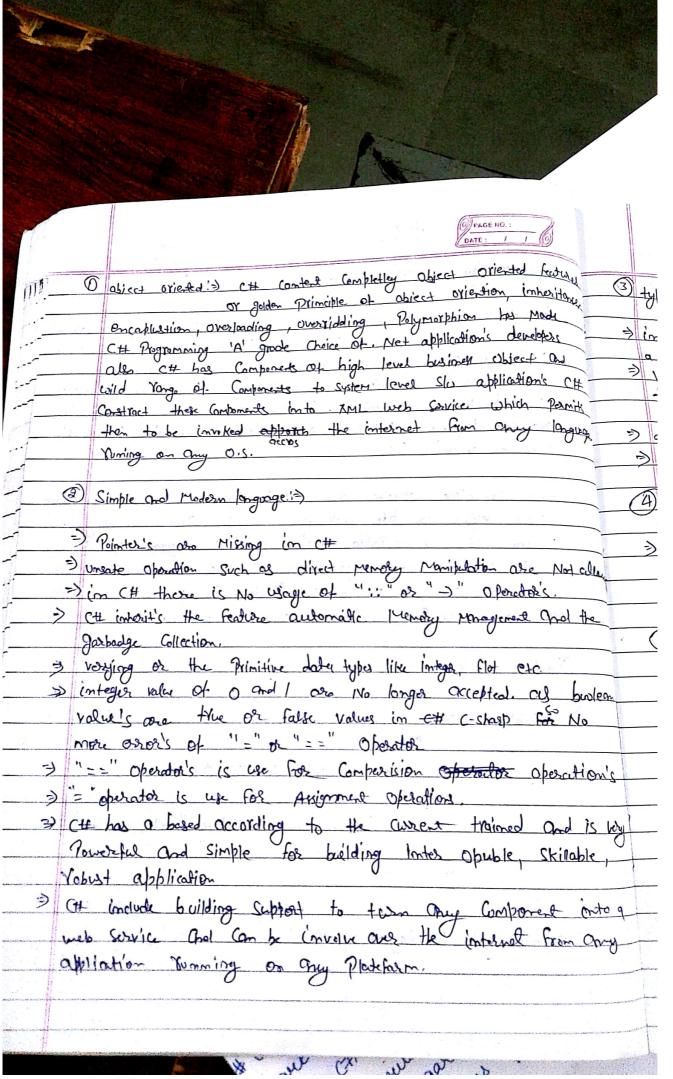
11) Simple and Modern Language:

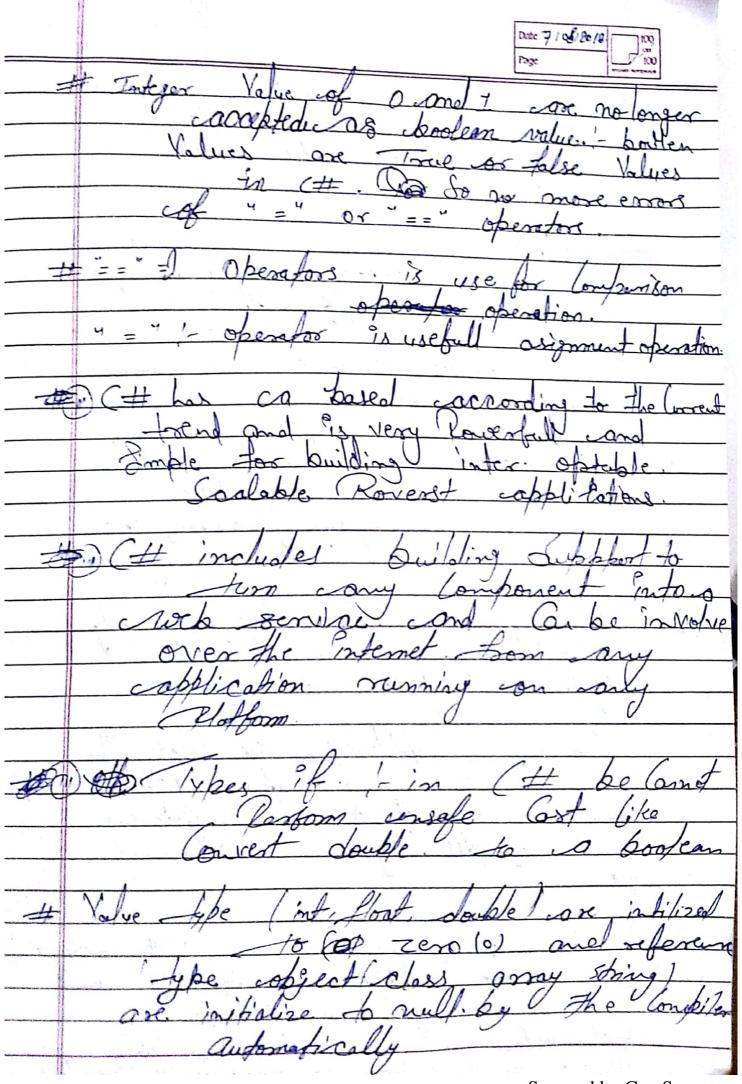
- # Pointers are missing in C#.
- # Unsafe operation such as direct memory marifulation are not allowed.
- # In C#, there is no usage of ':: 'or '-)' operator.

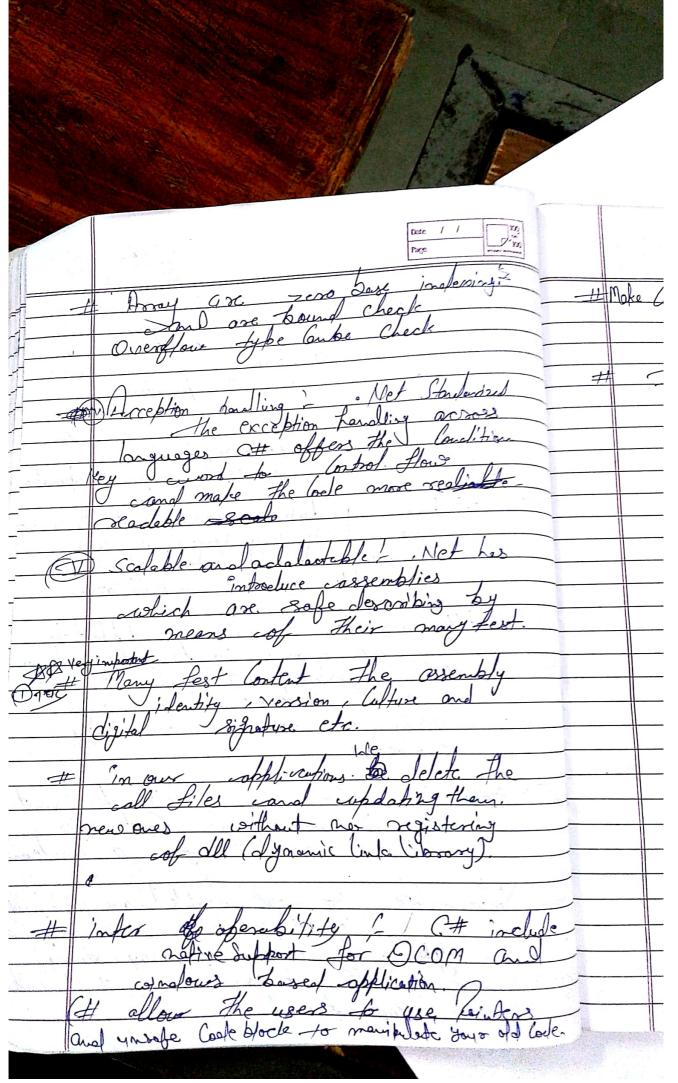
 # C# inherits the feature automatic memory management
 and the garbage Collection.
- # Varying stanges of the primitive data type like integers float etc.

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Thursday What is specialer everloading? Explain with example. (Use try cath block) Date Type: The following are two types in C# 1 Value Type 2 Reference Type Value Type : Integral type (Singned while, Unsigned while, User, Sheed, Unsigned, Short, Int, Unsigned Int or long). 2. Floating and Decimal Type (Float 00 Decimal Reference Type : 1.06ject Type 2. Class Type 3. Interfaces 4. Delegates 5. String 6. Array 7. Shuck Boring & Unboxing (5 marks) & Boxing - Convert value types to Reference type. Ex - Int 32 a = 10 System Console Writeline (Convert To String (a)); Convert Reference Type to Value Type Ex - String a = "20"; Console. Write Line (Convert. To Int 32 (a)); Access Modefiers

Private: Access limited to containing type or car only reached by members of the same class.

Public: Its member can be reached from anywhere.

Protected: Its members can only be reached within same class or from class which inherits from this class.

Internal: Its members can be reached from within the same project only.

Puotected Internal: This is same as internal except the class which inherits from this class can reach its members even from another project.

Introduction to ASP. NET

ASP. Net is a technology used to create dynamic web applications or web sites (Internet based Applications). This is based on the Net platform and it support most. Net capatable languages Monday. for its applications.

ASP. Net provides an infrastructure for faster and casier development of reliable and secure web application. ASP. Net provides easy programming model flexible language aption and compiled execution.

Features of ASP. Net

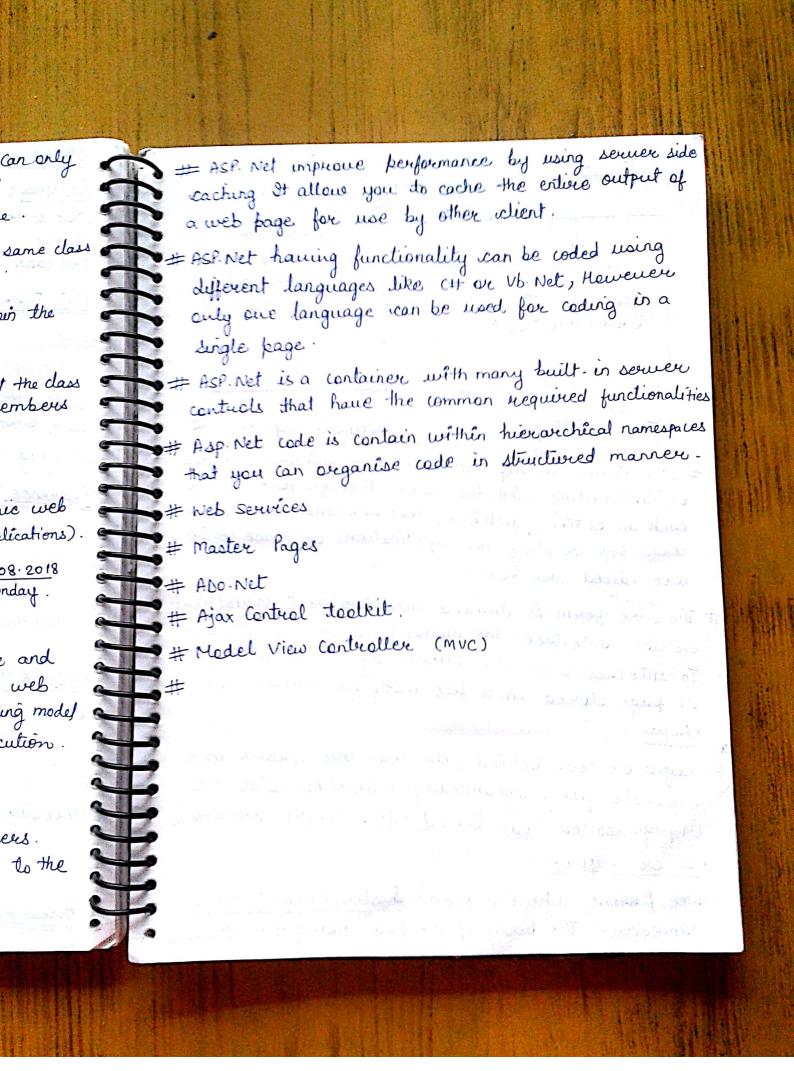
ASP. Net can recognize the type of browsers. This is using display the content accordingly to the client.

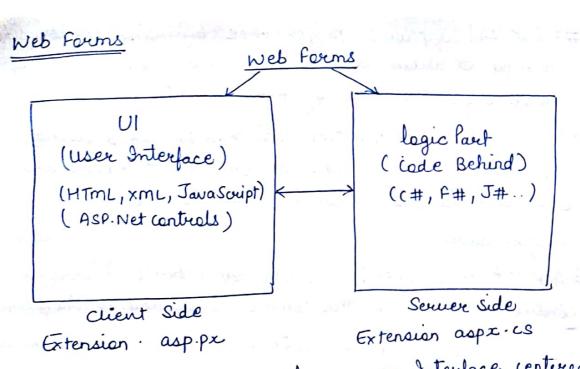
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web Forms in Asp. Net have user Interface, centured or interacting with the users Through form contrals such as buttons, list-box, text-box and so on These taals for creating web applications or trisk controls are called web forms.

The web form is divided into two parts visual part On user Interface The visual part on Ul part used to interact with the clients by the centrols The ul page stored in a file with the extension of

· Aspx.

Logic or Code behind, the code are written is a separate file, dynamically interaction with the UI page called "Code Behind File". This file extension is

· cs or aspx·cs.

web pours inherits from System. Web. UI. Page namespace The body of the page using the standard

HTML fo

ASP. Net

& Pap. Not that wer to a buo HTML E

& Other as Cole that m Datal

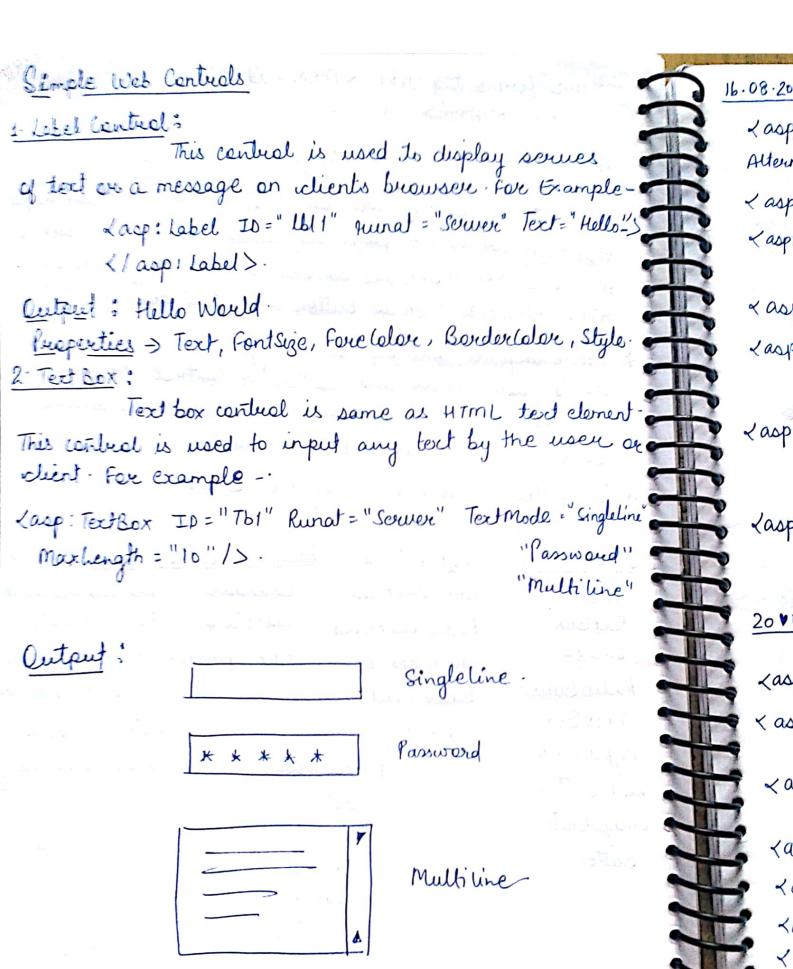
> 4 The fo contr Simple W Label

> > TextBo Image Radios Checkl Hyper

> > > Link B Image Butt

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HTML forms tag like < FORM id="form!" Root="Server"> </FORM> ASP. Net web Controls / Web Server Controls * PSP. Not web controls are object of an Asp. Not web page Paret that run when the page nequested and render markup Behind) to a browser Many web servers controls are similar to #, J#..) HTML elements Such as button and text box-& Other Asp Not controls have complex behaviour Such as Calender Control and Adeclator Control Other Controls er side that manage data connection like Grid View Control, aspx.cs Datalist control called Data Controls. rface, certired form conteals & The following are the categories of Asp. Net and web so on-These thisk controls controls: Rich Web Control Validation Controls List Controls Simple Web.C Required field Validator Calendar Orap Down List its visual part Label Range Validator AdRetator Radio Button List TextBox UI part used File uploader Compare Validator Image Check Box List certuals. The Regular Expression Vd. Radio Bullon Bullon List tension of Custom Validatore CheckBox List Box Validation Summary Hyperlink Data Controls voutler is a Link Button Guid View with the Image Button Datalist le extension us Data Greed Button Repeater Detail View b. Ul. Page the standard



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                     Value = "1"
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Kasp: List Item
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Create buejos deven value at Runtine
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 Duop Down List 1. Items. Add (new Item ("J#", "("));
 Radio Button
Yasp: Radio Button IO = "Rd Btn 1" Rurat = "Somer"
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Check Box List
Lasp: Check Box List ID: "CrkBL" Rurat - "Sexuex"
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(Same as above >
  < List Item>
    String values = " ";
 foreach (List9tem In ChEBL).
        of ( Item. Selected)
         Values += Item. Text + ",";
   lbl Print Text = "You have selected "+ values;
```

