|  |  |  |
| --- | --- | --- |
|  | **.NET FAQ'S**  1)what is CLR?    Common Language Runtime   CLR is used to take care about memory         management,compilation,Debugging,   Typesecurity and converting the program into       OS understandable format ------------------------------------------------------------------------ 2)What is CTS?   CTS is the Common Type System which is     used to provide common Datatypes for all the   .net Supportable languages ------------------------------------------------------------------------ 3)What is the difference between ToString() and   Convert.ToString()? ToString() doesnot handle null values but Convert.ToString() will handle null values ------------------------------------------------------------------------ 4)what is the Difference between int.Parse()   and Convert.ToInt32()? int.Parse()  will convert only string to int Convert.ToInt32() is used to convert any   datatype to int type ------------------------------------------------------------------------ 5)what is checked block and unchecked block? checked block is used to enable overflow   checking for arthimetic and conversion   functions     Ex:     byte b=254;                b++;                Console.WriteLine(b);               O/p is: 255 Ex:         byte b=254;                b++;                b++;                Console.WriteLine(b);                O/p is 0   becoz the range of byte is  0-255 so if the range is exceeded then the b   value will round to 0  but this type of programming is not safe type it   is unsafe if we want to display error message instead of 0   then we have to go for checked block   Ex:                  Checked                 {                byte b=254;                b++;                b++;                Console.WriteLine(b);                 }      o/p:Arthimetic overflow Error will occur unchecked block:it is used to disable overflow   checking for arthimetic and conversion   functions   Ex:       unChecked                 {                byte b=254;                b++;                b++;                Console.WriteLine(b);                 } output:0 ---------------------------------------------------------------------------- 6)write a program to get the range of Byte   Datatype?  Console.WriteLine(byte.MinValue);  Console.WriteLine(byte.MaxValue); ---------------------------------------------------------------------------- 7)w2hat is the difference between typeOf() and   sizeOf()? typeOf() is used to get the Base Datatype name sizeOf() is used to get the size of the Datatype ---------------------------------------------------------------------------- 8) what is the Difference between Value type   Datatype and Reference type Datatype? ---------------------------------------------------------------------------- 9)what is Boxing and UnBoxing? ---------------------------------------------------------------------------- 10)what is widening and Narrowing? widening is used to convert smaller datatype to   longer datatype Ex:int to long Narrowing is used to convert longer datatype to   smaller Datatype Ex:long to int working with Narrowing is unsafe type of   programming ---------------------------------------------------------------------------- 11)what is the Difference between String and        StringBuilder class? string is immutable and stringbuilder  is   mutable both string and stringBuilder are classes which   are used to handle strings the most common opereation with string is   concadination when we use the string object to concadinate   two strings the first string is combined to the   other string by creating a new copy in the   memory as string object hence string is   immutable  Ex:     string s1="Sathya";     string s2="Technologies";     string s3=s1.concat(s2); ----------------------------------------------------------------------      static void Main()      {      string x="";      for(int i=0;i<10000;i++)       {           x="sathya"+x;       }     } note:if 100% of the memory was allocated for   the  project nearly 98% of the memory was occupied by string object ----------------------------------------------------------------------- StringBuilder class:StringBuilder is mutable in StringBuilder class we are having Append() this method is used to insert the new value on   the existing string StringBuilder class is avilable under   System.Text namespace for ex:     using System.Text;    static void Main(string[] args)         {             StringBuilder x = new StringBuilder();             for (int i = 0; i < 10000; i++)             {                 x.Append("sathya" + x);             }      } operations on StringBuilder class is faster than   String. The usage of StringBuilder is more efficient in   case of large amounts of  string Manipulations   have to be done note:if 100% of the memory was allocated for   the  project nearly 28% of the memory was occupied by stringBuilder object     This Can be proved by using CLRProfiler Tool ----------------------------------------------------------------------------  12)What is an Assembly?      Assembly is the compiled format of any .net    language which may be .dll or .exe file ---------------------------------------------------------------------------- 13)what is the Difference between Private   Assembly and Public Assembly?   Private Assembly:This Assembly is specific for   a single Application or a single Folder The Assembly which was Registerd under GAC   is called Public Assembly ---------------------------------------------------------------------------- 14)what is GAC? Global Assembly Cache where all the public   Assemblies are Registered ------------------------------------------------------------------------- 15)How to view an Assembly?      start---->programs---->MSVS 2010-----> VisualStudioTools---->VisualStudioCommandPro  pt---->type      ILDASM.exe ILDASM:Intermediate Langauge DisAssembler --------------------------------------------------------------------------- 16)What is Reflection? Reflection is used to get the information of an   Assembly at runtime programatically by writing   some code --------------------------------------------------------------------------- 17)how to implement Reflection in .Net?     by using System.Reflection    Namespace     and System.Type class --------------------------------------------------------------------------- 18)What is Satellite Assembly? Satellite Assembly is used to develop   multilingual applications in .net ---------------------------------------------------------------------------- 19)what are MultiLingual Applications? The Applications that are build in supportive of   more than one human Readble languages are   known as MultiLingual Applications ---------------------------------------------------------------------------- 20)what is the difference between     a=b               assigning b value to a    a==b             comparing a with b    a.Equals(b)   comparing two objects ---------------------------------------------------------------------------- 21)what is the use of Codesnippets? code snippet is one of the best and easiest   ways for any developer to increase code   productivity simply shortcuts ---------------------------------------------------------------------------- 22)what is the difference between Array and   Collections? we need to specify the size of the Array at the   time of declaration  but while Working with   collections it is not required to mention the size   of the Colection becoz the size of the collection   will be fixed at runtime -->The members of the Array must be of same   datatype but collections can have elements of   Different datatypes ------------------------------------------------------------------------ 23)what is the difference between Array and   ArrayList? ------------------------------------------------------------------------ 24)what is a class? ------------------------------------------------------------------------ 25)what is the difference between class and   structure? class:    1. class is Reference type datatype    2.The memory was allocated on heap    3.class supports inheritance    4.class can contain constructors and               destructors Structure    1. it is value type datatype    2. The memory was allocated on Stack    3. doesnot support inheritance    4. doesnot contain constructors and               destructors ---------------------------------------------------------------------------- 26)what is Encapsulation? ---------------------------------------------------------------------------- 27)what is DataAbstraction? ----------------------------------------------------------------------------  28)what is the default Accessmodifier for the   members of the class? Private ------------------------------------------------------------------------- 29)what is the use of constructor? constructor is used to initailze the userdefined   values fro the variainstead of system defined values to the variables ------------------------------------------------------------------------- 30)what is the difference between constructor   and method? ------------------------------------------------------------------------- 31)what is the Difference between Private   Constructor and Static constructor? we cannot create an object for the class having   private constructor but we cannot create an   object for the class having static constructor ------------------------------------------------------------------------- 32)when the static constructor will be called?    static constructor will be called before      creating an object for a class.     The call to the static constructor will be       done by CLR. -------------------------------------------------------------------------  33)can we declare Public accessmodifier for   static constructor?    No -------------------------------------------------------------------------  34)can we declare parameterised  static   constructor? -------------------------------------------------------------------------  35)if we declare Main() and static constructor in   the same class  which one will be called first? static constructor -------------------------------------------------------------------------  36)How to Call the Default constructor of one   class with the parameterised constructor of   same class? by using this() -------------------------------------------------------------------------  37)How to access the constructors of one class   to another class? by using base() -------------------------------------------------------------------------  38)Does C#.net Supports Multiple inheritance?     NO -------------------------------------------------------------------------  39)How to acheive Multiple inheritance in   C#.NET? By using Multiple interfaces -------------------------------------------------------------------------  40)what is OverLoading? same methodname+Different method signature in same class -------------------------------------------------------------------------  41)what is Overriding? same methodheading+different method body in base class and derived class -------------------------------------------------------------------------  42)How to restrict a class from inheritance? by making the class as Sealed -------------------------------------------------------------------------  43)what is theDifference between Abstrcat   class and interface? -------------------------------------------------------------------------  44)what is the Difference between class and   static class? -------------------------------------------------------------------------  45)what is use of Properties? Properties are used to access the private   datamembers of the class -------------------------------------------------------------------------  46)what is a Delegate?     Delegate is a type safe function pointer   which is used to store the information of the   methods By using Delegates we can Reduce function   overloading Delegates are used to develop Event Driven   programming -------------------------------------------------------------------------  47)what is the Difference between Event and        Method?      Event will not have returntype but method        will have returntype -------------------------------------------------------------------------  48)what are Generics?     Generics are General Datatypes Generics will   avoid TypeCasting like Boxing and UnBoxing -------------------------------------------------------------------------  49)what is the syntax for declaring a Delegate -------------------------------------------------------------------------  50)Does generics supports Arthimetic   Operators? No -------------------------------------------------------------------------  51)what is the problem of Dll hell? -------------------------------------------------------------------------  52)what is Dynamic Dispatch? Dynamic Dispatch is concept that was   introduced in .net 4.0  here the function call can be executed at   runtime -------------------------------------------------------------------------  53)Which of the following are Build in generic   Types?  (a,c) a) Nullable b)Boolean c)EventHandlers d)System.Drawing.Point -------------------------------------------------------------------------  54)in .net for Assemblies we are having   StrongName lly in COM Components  what is   the Strongname? GUID(Globally Unique identifier) -------------------------------------------------------------------------  55)Is Versioning applicable to Private   assemblies? No -------------------------------------------------------------------------  56)Does .net supports Cross Language   Interoparability in CAS? No -------------------------------------------------------------------------- 57)how to Enable/disable Connection Pooling?      Pooling Property of connection is set to        true/false -------------------------------------------------------------------------- 58)can we use more than web.config in   ASP.Net?    Yes but in Different Folders -------------------------------------------------------------------------- 59)can we declare more than one   connectionstring in web.config file?     yes but both the connectionstrings names   must be different -------------------------------------------------------------------------- 60)what are nullable Datatypes? assigning null values for integer datatype? -------------------------------------------------------------------------- 61)what is App\_code folder? As All theclasses,dataset that are stored in   App\_Code are automatically accessible   throughout the application. If we store any   class files (like .cs or .vb) it compiles them   automatically ----------------------------------------------------------------------- 62)Can we use more than 1 master page in a   website? Yes ----------------------------------------------------------------------- 63)Difference between user control & custom        control? custom controls can be added to toolbox   whereas usercontrols cannot be added usercontrols are easier to create compare to   custom controls a seperate copy of user controls is required in   each application you want to use whereas   single copy of custom controls can be used in   multiple projects ----------------------------------------------------------------------- 64)what are the Different Page Level events   that are available in ASP.NET? Page\_PreInit Page\_Init Page\_InitComplete Page\_PreLoad Page\_Load Page\_LoadComplete Page\_PreRender Page\_PreRenderComplete Page\_Unload ------------------------------------------------------------------------- 65)what is Teh Difference between   Response.Redirect and Server.Transfer? ------------------------------------------------------------------------- 66)what is the Difference between Themes and   skins and CSS? ------------------------------------------------------------------------- 67)what is the Difference between   SQlDataReader and Dataset? ------------------------------------------------------------------------- 68)when to use ConnectionOriented   Architecture and DisConnectionOriented   Architecture? ------------------------------------------------------------------------- 69)what is SQlCommandBuilder Class? ------------------------------------------------------------------------- 70)How to declare the Connectionstring    Globally ? Web.config file ------------------------------------------------------------------------- 71)what is the Difference between web.config   and machine.config file? web.config: It is the main settings and   configuration file for an ASP.NET web   application. The file is an XML document that   defines configuration information regarding the   web application. The web.config file contains   information that control module loading,   security configuration, session state   configuration, and application language and   compilation settings. Web.config files can also   contain application specific items such as   database connection strings.   machine.config: It contains settings that apply   to an entire computer. This file is located in the   %runtime install path%\Config directory.   Machine.config contains configuration settings   for machine-wide assembly binding, built-in   remoting channels, and ASP.NET. -------------------------------------------------------------------------- 72)what is aviewstate? -------------------------------------------------------------------------- 73)can we Disable the Viewstate?      EnableViewstate=false -------------------------------------------------------------------------- 74)what is the scope of Viewstate? within the page -------------------------------------------------------------------------- 75)How to maintain the state in ASP.net   without using State management Techniques? Crosspage postBack -------------------------------------------------------------------------- 76)what is AutoPost? -------------------------------------------------------------------------- 77)if Autopost property is set to false for   DropDownlist control ?what will happen? the request will not submit to Server -------------------------------------------------------------------------- 78)what is IsPostBack? -------------------------------------------------------------------------- 79)what is the Difference bewteen Hyperlink   button and Link Button? ----------------------------------------------------------------------- 80)what is storedprocedure? -----------------------------------------------------------------------  81)what is a Cookie? -----------------------------------------------------------------------  82)what is the Scope of Cookie? -----------------------------------------------------------------------  83)what is the Difference between Cookie and   Session? -----------------------------------------------------------------------  84)what is the drawback with QueryString? -----------------------------------------------------------------------  85)what are the different session state modes   that are available? ----------------------------------------------------------------------- 86)What is the Default Session state mode? -----------------------------------------------------------------------  87)what is the Default Expiry time out of   Session? -----------------------------------------------------------------------  88)How to Generate Session state Tables in   SQLSERVER? -----------------------------------------------------------------------  89)How to kill  a Session? -----------------------------------------------------------------------  90)what is Application? -----------------------------------------------------------------------  91)what are the Different Application Level   Events that are available? -----------------------------------------------------------------------  92)Where all the Application level events are   avialable? Global.asax -----------------------------------------------------------------------  93)which event will first fire     a)Page\_Preinit     b)Page\_Load     c)Application\_Start -----------------------------------------------------------------------  94)what is Caching? -----------------------------------------------------------------------  95)what are the Different Caching Techniques   that are available? ----------------------------------------------------------------------- 96)what is the difference bewteen Caching and   Application? ----------------------------------------------------------------------- 97)How to Provide Security in ASP.net ----------------------------------------------------------------------- 98)what is the Difference between   Authentication and Authorization? ----------------------------------------------------------------------- 99)what is Forms Authentication? ------------------------------------------------------------------------ 100)what is the use of UpdatePanel in AJAX? |  |