**Introduction To Asp.Net**

**Ques:1.Explain asp .net life and page life cycle ?**

**Answer:** As we know that Asp.net Application runs or when user requested for the application it goes to the server. While performing these operations **Application\_start(object sender,EventsArgs e)** calls from the **Global.asax file.**

Then object creation is performed. There are mainly a few objects created like **HttpContext,HttpRequest, HttpResponse**. As the name suggests, request and response is the client-server architect. HttpRequest object handles the current request from the client, and HttpResponse object proceed the client request and sends back the response of the request with the help of HttpResponse object.

**HttpApplication is** the application object which is created by the web server to handle the Application. Dispose is called before the httpapplication instance of the application is destroyed.

**ApplicationEnd(object sender,EventArgs e)** this is the final part when our application is unloaded from the memory. This method is also presented in the global.asax file.

**page life cycle**

**Page Request:**  this is when a user requested a page from the server. Server checks page is requested first time or not. If a page is requested for the first time then the server will compile and save it into the cache memory. If the same page is requested a second time. Server will not compile the page again. It serves the page from the cache memory.

**Page Start:** two objects are created request and response object.request object hold all the information when the page is requested and response object contain all the information about the information which is sent to the user.

**Page Initializer:** In this phase, all the control of the page are initialized here.

**Page Load**: Page load event is an event when page is actually loaded and it loads it with it control default values.

**Validation:** It checks the validation which we set on the form. Like required field validator, rangevalidator etc…

**PostBack Event:** Postback is a method which means round trip. Page data hit the server and response comes back again and again. When the same page is requested again. It will check the postback method.

**Page Rendering**: this happens before all the response information is sent to the user.

**Unload:** Once the page output is sent to the user, there is no need to keep the .net web form objects in memory.

**Ques2:**Create a Web form with controls to create a calculator(Subtraction, addition, divison and multiplication only and manage session,viewstate).

**Answer:** refer project page Calculator through navigation.

**Ques:3.What are the different types of objects created in asp and explain all those?**

**Answer:** **Application:** It describes all the methods, properties and collections that are present everywhere in the web application. It also contains variables and objects that can be used anywhere in the web application.

**Request:** it describes the data related to http requests like sessions, cookies etc. The method, properties and collections that are stored in an object that store the request sent by the client to the server.

**Response:** It describes the data related to HttpResponse. The methods, collection etc that are stored in an object to store the response sent by the server.

**Session:** Describes the information related to user sessions that exist throughout the session of a particular user.

**Server:** it describes the methods properties and collections that provide information of various server tasks.

**Ques:4.What is the concept of postback and code a real time problem solved by postback?**

**Answer:** Postback property sending data back to the server. It is a round trip. Most of the asp.net control have the autopostback property. For Example see the calculator.aspx page behind code in which i handle the postback property…

**Ques:5.Create a program depicting Number of applications running and user online using Events in asp .net?**

**Answer:** refer validationform.aspx for example and see the code behind page...you will see the number of user and applcation running after login.

**Ques:6.Create a program to describe the difference between Viewstate, Sessionstate and Application state?**

**Answer:** refer the validation form(login module) and global.asax file code behind pages

**Ques:7.Create a program to handle Button related events(use database to store data)?**

**Answer:** refer to the validation form where form data inserted into the database on button click.

Two types of button events are: button onclick and button command.

Button command event is used when you have to call single method from multiple buttons. In this onclick will call first then command event. Command event uses command name and command argument.

**Ques8:Create a demo web application with Home page, About and Form submission using master page and submitting data to database.**

**Answer:** refer the AspAssignment project.

**Ques:9.Create a web page/web form using RequiredFieldValidator , CompareValidator, RangeValidator and ValidationSummary and submitting to database.**

**Answer:** refer validationform.aspx .

**Question:10.Create a asp .net functionality depeciting proper use of nested try catch with multiple catch block and finally block and proper exception handling**

**Answer:** refer the validationforrm.aspx.cs( Register\_Click module).