1. Tell us about the features of client server architecture.

* Client server computing works with a system of request and response
* Client and server should follow a common communication protocol so they can interact easily.
* All the data is stored in a single place called server so the authentication and authorisation can be provided.
* An example of client server computing system is webserver, it returns the web pages when requested.

1. What is a web server in a client server architecture?

* A Web server is software or hardware that uses HTTP (Hypertext Transfer Protocol) and other protocols to respond to client requests made over the World Wide Web (WWW).
* Web server software controls how a user accesses hosted files.
* a Web server is a computer that holds web server software and other files related to a website.
* Web server hardware is connected to the internet and allows data to be exchanged with other connected devices.

1. What is the role of the presentation layer?

* This is the top most layer and displays all the information related to services available on the website in the form of graphical user interface.
* It constitutes front end layer of the application and interface with which end users will interact with the application
* This is mainly build with the development frame works like reactjs, angular js , which includes javascript, html, css etc.
* This layer communicates with other layers by sending results to the browser and other layers in the network through API calls.

1. They say this architecture is secure, how is it done in your opinion?

* In my view firewall plays a major role in the security of the 3 tier architecture.
* All the connections between the presentation layer, application layer and database are secured by a middleware called firewall.
* With help of this firewall,if someone try to break into the system he can just get in to the presentation layer but cannot sneak through the application layer and data is not effected.

1. What is a Database Server in a client server environment?

* Database is the place of the server where the information is stored and retrieved based on the requirement.
* Data in this layer is kept independent to the application layer and the business logic.
* Data in this layer is layer is stored with the RDBMS and further stored in the form of tables.
* Other ways of managing the data in the database are mongodb, orackle, Microsoft sql server etc.

1. What are Super servers in client server environments?
2. Super servers are mainly designed to start over other servers when required
3. It is mainly used to manage other servers by running the program in the background.
4. This type of administration is used by the developers in the network administration to handle the server loads.
5. Explain 2-tier and 3-tier architecture?

A two-tier architecture is a database architecture where

1. Presentation layer runs on a client (PC, Mobile, Tablet, etc)
2. Data is stored on a Server.
3. In this one server is connected to 2 or more clients.
4. This architecture proc=vide faster and direct communication.

A three-tier architecture consist of 3 layers

1. Presentation layer which includes front end interface where the end users interacts
2. Application layer is where the general backend program and business logic will be running The 3 tier architecture is the most popular DBMS archutecture
3. Database stores all the data of the clients and the customers and can be retrieved based on the requirement
4. This architecture separates the applications and physical database.
5. It supports multiple views of the data.
6. What is a file server?

* A file server is a **central server instance** in a computer network that enables connected clients to access the server’s storage capacities.
* A file server is just a server with some storage attached and an interface to a network that allows other computers on the same network to access the storage on the server
* There are several protocols that can be used to present storage to a network. Common ones are SMB and NFS.

NFS- Network File System

SMB- Server Messaging Protocol