



## “OSTAD ASSIGNMENT (MODULE 7)”

### PART 1

#### Ans No. 1:

Client-side and server-side refer to the location where certain tasks or processes are carried out in a web application. Client-side processes are executed on the user's device, while server-side processes are executed on the web server. The main difference between the two is that client-side processes have less access to resources and are less secure, while server-side processes have more access to resources and are more secure.

#### Ans No. 2:

An HTTP request is a message that is sent from a client to a server. It contains information about the request, such as the type of request, the resource that is being requested, and the data that is being sent. The different types of HTTP requests are:

- **GET** requests are used to retrieve a resource from the server.
- **POST** requests are used to send data to the server.
- **PUT** requests are used to update a resource on the server.
- **DELETE** requests are used to delete a resource from the server.

#### Ans No. 3:

**JSON** (JavaScript Object Notation) is a lightweight data-interchange format. It is easy to read and write for humans and machines. JSON is commonly used in web development to transmit data between the client and the server.

#### Ans No. 4:

A **middleware** is a piece of code that is executed between a request and a response. It is used to handle common tasks, such as authentication, authorization, and logging. Middleware can be used to improve the performance and security of a web application.

#### Ans No. 5:

A controller is a component in the Model-View-Controller (MVC) architecture. It is responsible for receiving requests from the user, interacting with the model, and generating the appropriate response. The controller is the glue that holds the MVC architecture together.