

### **Q1 What is HTML?**

**Ans:-** HTML is the standard markup language for creating web pages. HTML stands for Hyper Text Markup Language.

### **Q2 What is CSS?**

**Ans:-** CSS stands for cascading style sheets. It is a style sheet language which is used to describe the look and formatting of a document written in Markup language.

### **Q3 What is JavaScript?**

**Ans:-** An object oriented computer programming language commonly used to create interactive effects within web browsers.

### **Q4 What is C language?**

**Ans:-** C is a mid-level and procedural programming language. The Procedural programming language is also known as the structured programming language is a technique in which large programs are broken down into smaller modules, and each module uses structured code. This technique minimizes error and misinterpretation.

It was initially developed by Dennis Ritchie between 1969 and 1973 at Bell labs.

### **Q5 What is C++?**

**Ans:-** C++ is an object-oriented programming language created by Bjarne Stroustrup. It was released in 1985.

C++ is a superset of C with the major addition of classes in C language.

### **Q6 What is JAVA?**

**Ans:-**Java is the high-level, object-oriented, robust, secure programming language, platform-independent, high performance, Multithreaded, and portable programming language. It was developed by James Gosling in June 1991. It can also be known as the platform as it provides its own JRE and API.

### **Q7 What is Servlet?**

**Ans:-** Servlet is a class that extends the capabilities of the servers and responds to the incoming requests. It can respond to any requests.

### **Q8 What is JSP?**

**Ans:-** Java Server Pages technology (JSP) is a server-side programming language used to create a dynamic web page in the form of HyperText Markup Language (HTML). It is an extension to the servlet technology.

## Q9 What is Hibernate?

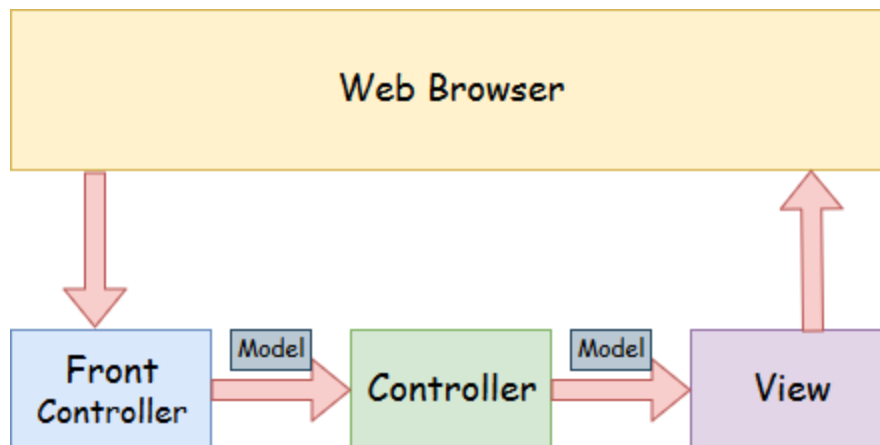
**Ans:-** Hibernate is an open-source and lightweight ORM tool that is used to store, manipulate, and retrieve data from the database.

## Q10 What is Spring?

**Ans:-** It is a lightweight, loosely coupled and integrated framework for developing enterprise applications in java.

## Q11 What is Spring MVC?

**Ans:-** A Spring MVC is a Java Framework which is used to develop dynamic web applications. It implements all the basic features of a core spring framework like Inversion of Control and Dependency Injection. It follows the Model-View-Controller design pattern.



Here,

- **Model** - A model contains the data of the application. Data can be a single object or a collection of objects.
- **Controller** - A controller contains the business logic of an application. Here, the `@Controller` annotation is used to mark the class as the controller.

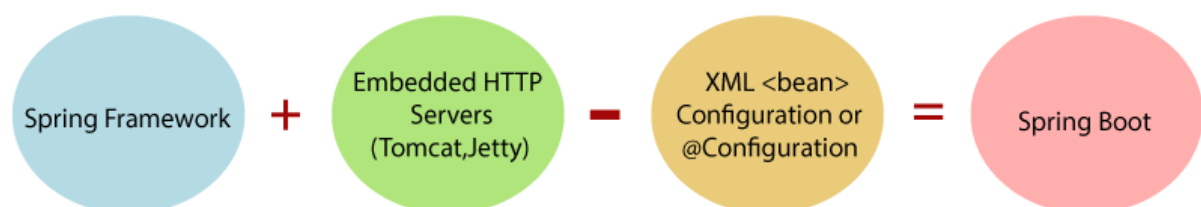
- **View** - A view represents the provided information in a particular format. So, we can create a view page by using view technologies like JSP+JSTL, Apache Velocity, Thymeleaf, and FreeMarker.
- **Front Controller** – In Spring web MVC, the Dispatcher Servlet Class Works as the front controller. It is responsible to manage the flow of the Spring MVC application.

## Q12 What is MVC?

**Ans:-** The MVC (Model-View-Controller) is a software architectural design pattern. It separates the functionality of an application into three interconnected parts - Model, View, and Controller. This approach facilitates the reusability of the code and parallel development.

## Q13 What is Spring Boot?

**Ans:-** Spring Boot is an open source, microservice-based Java web framework. The Spring Boot framework creates a fully production-ready environment that is completely configurable using its prebuilt code within its codebase. The microservice architecture provides developers with a fully enclosed application, including embedded application servers.



#### **Q14 What is JPA?**

**Ans:-** Java Persistence API (JPA) is a Java Specification that provides certain functionality and standard to ORM tools. The `javax.persistence` package contains the JPA classes and Interfaces.

#### **Q15 What is Spring Data JPA?**

**Ans:-** It is a library/framework that adds an extra layer of abstraction on top of our JPA provider (like Hibernate). We can use Spring Data JPA to reduce the amount of boilerplate code required to implement the data access object (DAO) layer.

#### **Q16 What is ORM?**

**Ans:-** ORM is an acronym for Object/Relational mapping. It is a programming strategy to map object with the data stored in the database. It simplifies data creation, data manipulation, and data access.

#### **Q17 What is a Framework?**

**Ans:-** A Framework is a group of predefined libraries, which comes with set of Jar files.

It is not a new technology but it is an abstraction layer on the top of existing technology.

#### **Q18 What is XML?**

**Ans:-** XML stands for extensible Markup language.

A metalanguage which allow users to define their own customized markup languages, specially in order to display documents on the internet.

XML is a markup language much like HTML.

### **Q19 What is JSON?**

**Ans:-** JSON stands for JavaScript Object Notation.

JSON is a lightweight format for storing and transporting data.

JSON is often used when data is sent from a server to a web page.

JSON is “self-describing” and easy to understand.

JSON is easy to read and write.

### **Q20 What is AJAX?**

**Ans:-** AJAX stands for Asynchronous JavaScript and XML.

It is a group of inter related technologies used to display data asynchronously. In other words, it sends and retrieves data without reloading the whole page.

AJAX is not a programming language.

Exa:- Gmail, Facebook, YouTube, Google doc etc.

### **Q21 What is Maven?**

**Ans:-** Maven is a powerful *project management tool* that is based on POM (project object model). It is used for projects build, dependency and documentation.

### **Q22 What is a Design Pattern?**

**Ans:-** A design patterns are well-proved solution for solving the specific problem or task.

Design patterns are formalized best practices that the programmer can use to solve common problems when designing an application or system.