1. Can you explain about your project that you did by yourself?

* Explain about your P1 or P2 or P3 or Even your college projects

1. What annotation did you use in your project?

* @RestController, @Service -- Spring Boot Annotations
* @Entity, @Id, @Table, @Column --- Java Persistence Annotations
* @Data, @Getters, @Setters, @NoArgsConstructor, @AllArgsConstructor --- Lombok Annotations
* @Deprecated, -- Core Java Annotations

1. What is java 8 features?

* Lambda (Arrow Functions) --- It’s online Function or Anonymous Function (Nameless Function)
* Functional Interface (Interface with only one abstract method) [ All interfaces defined inside java.util.function]
* Streams (Flow of data)
* New Date & Time, Concurrency Enhancements

1. How would you describe Java and Angular in a non-technical way?

REST – Representational State Transfer

REST based Web Services – (Two machines (Computer/Laptop/ATM) interact each other using web services)

SQL – MySQL, PostGres, H2 (In-memory Database just 2mb in size)

Requirement Gathering, Planning, Designing, Developing, Testing, Deploying, Maintaining -- Water Fall Model

Agile – Incremental Iteration

DB connection in JAVA

1. Load & Register the Driver (Class.forName())
2. Establish connection between Java & DB (Connection)
3. Create and Execute Query using Statement/PreparedStatement/CallableStatement
4. Execute Query and process the Result (Using ResultSet)
5. Close all the Resources

Spring Framework –

It’s a Java based Framework to Create **Loosely-coupled** Enterprise Application.

It uses two important Design Patterns IoC(Inversion of Control), DI (Dependency Injection)

SpringBeans – It converts normal POJO class into powerful Controller or Services or Entity or Repository.

SpringBoot is a way of Creating Spring based Projects easily using spring boot cli or Springboot initializr or STS.

Core JAVA, SQL

Spring, SpringBoot, Angular

EC2 – Elastic Cloud Compute (Virtual Server in the cloud) [It’s a PaaS Service in AWS]

S3 – Simple Storage Service (Cloud Storage Services) – you can deploy static websites, store documents, files anything in cloud

Resolving Merge Conflict in Github – When we use “git merge” command , this will display all the code conflicts, some tools (GUI/CUI based) to accept changes made by any user or both the user.

Diff Between method and function –

Function – Is a group or block of codes that can be called n no of times.

Method – Method is a function which is defined inside a class.

Exception Handling – 1) Using try catch block (Recommended) 2) using throws keyword

Functional Interface – Interface with only one abstract method Runnable.run(), all Interfaces inside java.util.function package

Marker Interface – Interface with no abstract method (Serializable)

System.out::println; -- Method Reference (Static, Instance Reference)

Diff between Lambda & Method Ref

Lambda provide implementation to functional Interfaces. (Interfaces are used)

Method Reference allows to call any method using Class name or Object Name. (Class or Objects are used)

Stream API – It’s a way of handling stream (group) of data to process it in a functional way.

Functional way – Doing more than one operation in a single line (Filtering and sorting) -- functional programming

Angular Bindings

1. One way Binding (Interpolation {{}}, Property Binding [], Method or Event Binding ()
2. Two Way Binding (Banana in a Box syntax [()])

Template or View (HTML)

Model(Data) or Component or Class (typescript)

MVC – Model (Data/Entity) View (HTML/Front End /User Interface) Controller (Backend Code/Java/Spring)

MVC is a Web Design Pattern

Design Pattern – Proven way of resolving a problem/challenge.

Creational , Behavioural, Structural

Abstract – Non-Concrete or in-complete (Not fully defined – partially defined)

OOPs

1. Abstraction – Hiding Implementation (abstract or using interface)
2. Inheritance – Passing on the property to child or derived class (Reusing the code/properties) sharing properties
3. Polymorphism – Many form single name (Reusing same methods for different functionalities) sharing methods (Static/Dynamic)
4. Encapsulation – Hiding Data (Using access modifiers private, package/default, protected, public) – Code is securely encapsulated using access modifiers

Select \* from employee where salary <= (select max(salary) from employee) limit 10;