|  |  |
| --- | --- |
| **S.No.** | **Questions** |
| 1 | System.out.println() describe. |
| 2 | object class methods |
| 3 | difference between "==" and ".equals()" |
| 4 | HashMap internal working |
| 5 | If two object in hashmap has same hashcode then what will be the size? |
| 6 | If two object in hashmap has same hashcode then what is the buket allocation? |
| 7 | what is the name of the method to create index value of hashmap's key and value? |
| 8 | difference between abstract class and interface |
| 9 | can abstract class have constructor? |
| 10 | why abstract class have constructor? |
| 11 | what is functional interface? |
| 12 | can functional interface have concret class? If yes then what will be the difference b/w functional interface and normal interface? |
| 13 | will the below code complite or it will run? |
|  | interface A { void m1();} |
|  | interface B { void m1();} |
|  | class abc implement A, B{ |
|  | } compile error to add unimplemented methods |
| 14 | What will be th output of below code |
|  | class Employee{ |
|  | private int id; |
|  | private String name; |
|  | public Employee(int id){ |
|  | this.id=id; |
|  | } |
|  | P S V main(…){ |
|  | Employee emp=new Employee(1); |
|  | employee emp1=new Employee(1); |
|  | if(emp==emp1) |
|  | system.out.println("emp==emp1); |
|  | if(emp.equals(emp1)) |
|  | system.out.println("emp.equals(emp1)); |
| 15 | Write Junit of controller class which have following method |
|  | public void getEmpl(Employee emp){ |
|  | empService.getEmployees(emp); |
|  | } |
| 16 | what is assert? How can we use assert in this senario? |
| 17 | how we can use verifier in this senario? |
| 18 | Lifecycle of react |
| 19 | how many ways we create components |
| 20 | what is difference between class component and functional component |
| 21 | how many ways we can render functional component? |

…………………………………………………………………………………………………

1. What is the difference bw stream and parallel stream.
2. How to make Immutable class with List as attribute.
3. How to resolve cyclic dependency.
4. Diff between Rest Controller and Controller.
5. Types of Dependency Injection and their differences.
6. In which version of spring rest was introduced.
7. Filter List<String> using java 8.
8. Types of IOC containers and their differences.
9. When to use new String () and string literal for creating String Object.
10. Can we replace java Thread using parallel stream.
11. What do you mean by Mockito and what is the need of using Mockito?
12. Difference between Request parameter and Query parameter.
13. What is Accept = {MediaType.Application\_json} in rest api and how it parse data?
14. Difference between @Service and @Component ?
15. Servlet Life cycle?
16. Java 8 with TDD - Create List<Employee> from Employee class (id, firstName, LastName, Skill, Location) where location =pune, skill=UI ?
17. What is final, finally and finalise ?
18. What is Anonymous class ? what is the difference between Anonymous class and Inner class ?
19. What is the difference between rest api and restfull webservices ?
20. URL workflow with reference to servlet ?
21. WebService – Who is consumer and who is producer ?
22. Difference between springframework, spring and springboot ?
23. Actual spring security classes used to implement spring security in application ?
24. If I don’t want to return any jsp but want to add data to database on URL hit , where should we write code ?
25. WebContainer and ApplicationContext Container Difference
26. How is deployment done
27. What is Boxing Unboxing and Autoboxing and Autounboxing with example
28. Collection Hierarchy
29. Difference between ArrayList and Linklist
30. What is HashSet and HashTable
31. JUnit for DAO
32. What is JSP
33. How can we write java code in JSP
34. Rest code to modify Employers Lastname when id is given
35. Can we remove Controller annotation if then what changes need to be done
36. RestController and Controller Difference
37. Can we create REST without using Spring
38. Why DispatcherServlet is called servlet why not JSP.
39. Tell me about Micro-services architecture.
40. How many ways to create simple “hello world” web application.
41. Spring MVC flow.
42. What is DispatcherServlet? Which method called by DispatcherServlet internally?
43. Write the function for create new Employee in spring rest service with using all required annotations.
44. How can we replace @RestController with other annotations?
45. @RestController come in which version?
46. @GetMapping come in which version?
47. Difference between abstract class and interface.
48. When we should abstract class and interface.
49. Interface A{

Show();

}

Interface B{

Show();

}

class C implements A, B{

Show(){}

}

In above question, we don’t want to override show method that means we removed highlighted above line, so that time it will show compilation error so how can we remove compilation exception.

Answer:

abstract class C implements A, B{

}

1. Difference between TypeScript and JavaScript
2. What is Spring and Spring Framework.
3. Write a Controller class for basic CRUD operation.
4. Difference between Rest Controller and Controller.
5. How to use produce and consume in request mapping.
6. Output:

try{

return 0;

}

catch(Exception e){

sop(“hi”);

}

finally{

sop(“hello”);

}

1. Output:

try{

System.exit(0);

}

catch(Exception e){

sop(“hi”);

}

finally{

sop(“hello”);

}

1. Database (table Structure) for Employee Management System having role and department.
2. You are having 10K entries in database, while retrieving data which collection you will prefer and why? Also inserting 2K entries having duplicates then identify duplicates entries and which collection will be preferred for this.
3. Different type of web server.
4. Commands for SVN you have used.
5. Collection hierarchy in java.
6. What is AWS?
7. What is Microservices?
8. If we use @Conroller instead of @RestController what will happen?
9. How do Spring know which controller has to call?
10. Runtime and compiletime Exception?
11. How to write Custom Exception class.
12. What is PatchMapping?
13. What all sorting Algorithm do you, write code for bubble sort or any soring algo.

…………………………………………………………………………………………………

1. What is the difference bw stream and parallel stream.
2. How to make Immutable class with List as attribute.
3. How to resolve cyclic dependency.
4. Diff between Rest Controller and Controller.
5. Types of Dependency Injection and their differences.
6. In which version of spring rest was introduced.
7. Filter List<String> using java 8.
8. Types of IOC containers and their differences.
9. When to use new String () and string literal for creating String Object.
10. Can we replace java Thread using parallel stream.
11. What do you mean by Mockito and what is the need of using Mockito?
12. Difference between Request parameter and Query parameter.
13. What is Accept = {MediaType.Application\_json} in rest api and how it parse data?
14. Difference between @Service and @Component ?
15. Servlet Life cycle?
16. Java 8 with TDD - Create List<Employee> from Employee class (id, firstName, LastName, Skill, Location) where location =pune, skill=UI ?
17. What is final, finally and finalise ?
18. What is Anonymous class ? what is the difference between Anonymous class and Inner class ?
19. What is the difference between rest api and restfull webservices ?
20. URL workflow with reference to servlet ?
21. WebService – Who is consumer and who is producer ?
22. Difference between springframework, spring and springboot ?
23. Actual spring security classes used to implement spring security in application ?
24. If I don’t want to return any jsp but want to add data to database on URL hit , where should we write code ?
25. WebContainer and ApplicationContext Container Difference
26. How is deployment done
27. What is Boxing Unboxing and Autoboxing and Autounboxing with example
28. Collection Hierarchy
29. Difference between ArrayList and Linklist
30. What is HashSet and HashTable
31. JUnit for DAO
32. What is JSP
33. How can we write java code in JSP
34. Rest code to modify Employers Lastname when id is given
35. Can we remove Controller annotation if then what changes need to be done
36. RestController and Controller Difference
37. Can we create REST without using Spring
38. Why DispatcherServlet is called servlet why not JSP.
39. Tell me about Micro-services architecture.
40. How many ways to create simple “hello world” web application.
41. Spring MVC flow.
42. What is DispatcherServlet? Which method called by DispatcherServlet internally?
43. Write the function for create new Employee in spring rest service with using all required annotations.
44. How can we replace @RestController with other annotations?
45. @RestController come in which version?
46. @GetMapping come in which version?
47. Difference between abstract class and interface.
48. When we should abstract class and interface.
49. Interface A{

Show();

}

Interface B{

Show();

}

class C implements A, B{

Show(){}

}

In above question, we don’t want to override show method that means we removed highlighted above line, so that time it will show compilation error so how can we remove compilation exception.

Answer:

abstract class C implements A, B{

}

1. Difference between TypeScript and JavaScript

…………………………………………………………………………………………………

1 write custom Stack implementation class.

2 Array Program:- Input [1, 1, 0, 1, 0, 0, 1]

Output [0, 0, 0, 1, 1, 1, 1]

3 Which method call from below code:

class A {

**void** m1() {

System.***out***.println("1");

}

}

**class** B **extends** A {

**void** m1() {

System.***out***.println("2");

}

}

**class** C **extends** B {

**void** m1() {

System.***out***.println("3 Inside Child...");

}

**public** **static** **void** main(String[] args) {

A a = **new** C();

p.m1();

}

4 What is Interface and Abstraction?

5 When to use abstract class and when to use Interface?

6 Diff abstract class and Interface?

7 What is Functional Interface?

8 What is Predicates?

9 What is Function?

10 What is Consumer?

11 What is Supplier?

12 @Controller Vs @RestController

13 What is Content-Type and Accept in Rest?

14 What is Header?

15 Hashmap Internal working? How Hashmap woks if we use user defined object as a key without implementing equals() method.

16 ConcurrentHashmap?

17 Diff HashMap Vs ConcurrentHashmap?

18 Diff Arraylist Vs LinkedList.

19 When to use ArrayList and when to use LinkedList?

20 What is ES6.

21 What is Callback and Why we use it?

22 How many componenets in ReactJS and Diiff between them?

23 Redux Flow?

24 Why we use thunk in redux?

25 State in React?

26 Promises in Javascript?

27 Async/Await in Javascript?

28 Write Lambda Expression.

29 Junit example.

30 SynchronizedHashMap Vs ConcurrentHashMap.

31 ManyToMany Relationship and data structure?

32 Overriding Vs Overloading.

33 What is Functional Interface Vs Interface.

34 Why Functional Interface have only one abstract method.

35 Output of below code after protected:

class A {

**void** m1() {

System.***out***.println("1");

}

}

**class** B **extends** A {

protected **void** m1() {

System.***out***.println("2");

}

}

**class** C **extends** B {

**void** m1() {

System.***out***.println("3 Inside Child...");

}

**public** **static** **void** main(String[] args) {

A a = **new** C();

p.m1();

}

36 Javascript map(), fiter() functions.

37 What are ordered and sorted collections in Collection framework.

38 Internal working of Set.

39 Junit and mockito diff.

40 Life Cycle methods of ReactJs.

…………………………………………………………………………………………………

1 write custom Stack implementation class.

2 Array Program:- Input [1, 1, 0, 1, 0, 0, 1]

Output [0, 0, 0, 1, 1, 1, 1]

3 Which method call from below code:

class A {

**void** m1() {

System.***out***.println("1");

}

}

**class** B **extends** A {

**void** m1() {

System.***out***.println("2");

}

}

**class** C **extends** B {

**void** m1() {

System.***out***.println("3 Inside Child...");

}

**public** **static** **void** main(String[] args) {

A a = **new** C();

p.m1();

}

4 What is Interface and Abstraction?

5 When to use abstract class and when to use Interface?

6 Diff abstract class and Interface?

7 What is Functional Interface?

8 What is Predicates?

9 What is Function?

10 What is Consumer?

11 What is Supplier?

12 @Controller Vs @RestController

13 What is Content-Type and Accept in Rest?

14 What is Header?

15 Hashmap Internal working? How Hashmap woks if we use user defined object as a key without implementing equals() method.

16 ConcurrentHashmap?

17 Diff HashMap Vs ConcurrentHashmap?

18 Diff Arraylist Vs LinkedList.

19 When to use ArrayList and when to use LinkedList?

20 What is ES6.

21 What is Callback and Why we use it?

22 How many componenets in ReactJS and Diiff between them?

23 Redux Flow?

24 Why we use thunk in redux?

25 State in React?

26 Promises in Javascript?

27 Async/Await in Javascript?

28 Write Lambda Expression.

29 Junit example.

30 SynchronizedHashMap Vs ConcurrentHashMap.

31 ManyToMany Relationship and data structure?

32 Overriding Vs Overloading.

33 What is Functional Interface Vs Interface.

34 Why Functional Interface have only one abstract method.

35 Output of below code after protected:

class A {

**void** m1() {

System.***out***.println("1");

}

}

**class** B **extends** A {

protected **void** m1() {

System.***out***.println("2");

}

}

**class** C **extends** B {

**void** m1() {

System.***out***.println("3 Inside Child...");

}

**public** **static** **void** main(String[] args) {

A a = **new** C();

p.m1();

}

36 Javascript map(), fiter() functions.

37 What are ordered and sorted collections in Collection framework.

38 Internal working of Set.

39 Junit and mockito diff.

40 Life Cycle methods of ReactJs.

…………………………………………………………………………………………………

**ISG Interview Questions**

1. What is Generics in Java? How do you declare a Generic Class? Give an example of Generic Method?
2. Types of Exceptions? How to handle Exceptions in java?
3. What is Abstraction? When you prefer Interface and abstract?
4. Difference between Interface and Abstract?
5. Is abstract class contains only abstract method?
6. Can we create interface methods as private, static, default?
7. If we have 2 interfaces (A, B) and both interfaces have same method name (show ()) then 1 class (Demo) implements both the interface so, what is the output?
8. Which Collection you are used in your project? Collection Hierarchy?
9. Differences between HashMap and HashTable?
10. Comparable and Comparator?
11. ConcurrentHashMap and HashTable differences?
12. What is Marker Interface? List of Marker Interface?
13. What is cloneable and serializable interface?
14. Create Immutable class?
15. Create Singleton class?
16. Is it better to make whole getInstance() method synchronized or just critical section is enough? Which one you will prefer?
17. Why String is Immutable? With example

String s1 =new String(“helloworld”);

String s2= “hello”+”world”;

String s3 = “helloworld”;

Where s1, s2, s3 will take memory? Which will store in String constant pool and Heap memory?

1. What are the Modules in Spring? Types of spring? IOC types?
2. Spring MVC flow?
3. In which version you are working in Reactjs?
4. What is ES6 ? What are Constants in ES6?
5. What is Babel? What is Transpiler?
6. How to update an object in javascript?
7. How Reactjs works? React lifecycle?
8. How to handle Exceptions in Reactjs?

……………………………………………………………………………….

**JD Interview Questions**

1. Explain project architecture
2. Explain front controller with diagram
3. How view gets resolved in MVC.
4. Different scopes of spring beans.
5. Types of DI?
6. How to do DI for the following code.

Class A{

static B b;

}

Class B{

}

1. How to create a thread.
2. Suppose there are 2 threads t1 and t2.

How to make sure that t2 runs after completing t1 thread.

1. Is collection thread safe?
2. How will you make collection thread safe.
3. How collections.synchronized() internally works.
4. Difference between ArrayList and HashMap
5. Write threadsafe singleton class.
6. What will be the output of the following code?

String str1="abc";

String str2="xyz";

Sop(str1+str2) ---->How many objects will be created?

str1=str2;

Sop(str1==str2)----> what will be the output?

Sop(str1.equals(str2))---> what will be the output?

1. Write a program to find substring with max length and max no of occurrences.

eg. "HellomydeHelloxyzde"----> //output will be Hello  
Write it in an optimized way.

1. Can we give custom property in application.properties? If yes, then how you will read/use in your spring boot application.
2. Internal working of application.properties.
3. Explain all collection which you used in your project and Internal working of HashMap.
4. What is Immutable class? How to create immutable class and how to make List Immutable?
5. What will be the output of below code?  
   final List list = new ArrayList();  
    list.add(“abc”);  
    list.add(“pqr”);

Sop(list);

1. Write a program to find max and min difference of two continuous number in an array (write in an optimize way)   
   example: {10, 5, 20, 7, 30, 6, 9……………………..}  
    max=24 and min=3