**Chetan Ashtankar - L2 - 27th December, 2023**

Introduce yourself.

1.Roles and responsibility.

2.Feature of java 8.

3.Functional interface.

4.Lamda expression.

5.Optional class.

6.Default method.

7.Static method.

8.Fail & fail safe.

9.Explain concurrenthashmap.

10.Explain set and list.

11.Comparable and comparator.

12.How we can make object is immutable?

13.Explain Flat map

14.Explain Microservices

15.Explain API gateway

16.Explain Docker

17.What is optional class and functional interface? Explain in depth

18.Program 1] sort a list in descending order by using stream.

2] list1 = [2,4,3,2,1]

list2 = [3,1,2,1,5]

output = [2,1,3]

19.Difference between Comparable and comparator.

20.What are the annotations used in spring boot?

21.Difference between controller and restcontroller

22.How to avoid concuurentmodificationexception in java?

**Dillibabu G - L3 F2F @ Chennai - 26th December, 2023**

1.What is immutability?

2.What is feign client?

3.What you know about my company?

4. Fetch band in emp records data?

5. When throws keyword used subclass method should i want to use throws keyword superclass method or not?

6.String s="hello";

s.conacat("world");

System.out.println(s);

7. s.add(new Employee(1,&quot;Akash&quot;));

    s.add(new Employee(1,&quot;Akash&quot;));

    System.out.println(set.size()); //Guess the output

8.Find the emp records by chennai location using java 8

9. Given a dictionary and a string ‘str’, find the longest string in the dictionary which can be formed by deleting some characters of the given ‘str’.

Input : dict = {&quot;ale&quot;, &quot;apple&quot;, &quot;monkey&quot;, &quot;plea&quot;}

        str = &quot;abpcplea&quot;

10. What is multiple inheritance?

11. Stream programs based on some realtime data

**Darshan Wawale - L3 F2F @ Chennai - 26th December, 2023**

Brief intro[id=1,location="chennai",name="darshan"][id=2,location="chennai",name="sanket"][id=3,location="pune",name="darshan"]consider [id=1, location="chennai",name="darshan"] it's a string and you have one Employee class which contains id, location, name now you have to read the data from above string and create employee object with argument constructor.(new Employee(1,"chennai","darshan"))take a Employee object list and find the employee who belongs to Chennai using stream remove duplicate object based on location using stream.-----------------------------------Consider there is one Employee class with name and idSet aa=new HashSet<>();aa.add(new Employee(1,"Darshan")); aa.add(new Employee(1,"Darshan")); what is the size of the aa?------------------------String a= "Darshan";a.concat("Wawale");syse(a);guess output//--------------------------List<String> of = List.of("ale", "apple", "monkey", "plea"); String str = "abpcplea";expected output= "apple" ;--------------------------------1.When we use map and flatmap?2.What is microservices?3. How to communicate with two services?4. Have you configured multiple DB's in spring?5. All annotations?

6. Do you have any idea about kafka?7. What is difference between int & Integer?8. What is wrapper classes and why do we need it?9. Method overriding rules?Interface A { public void test();}Class B implements A{@Override protected void test(){}}while overriding can we change the return type of the method?Interface A { public void test();}Class B implements A{@Override public void test () throws Exception{}}is it correct?

**Dillibabu G - L2 - 20th December, 2023**

1.Explain about java8 features

2. What is optional class?

3. Can we use object class?

4. Do you know about swagger? Explain it

5. What is equals and hashcode method in object class?

6. Can we use hashset in multithreaded application?

7. What is difference between comparable and comparator?

8. Sort the list of integer in descending order using java stream API

9. What is the difference between string buffer and string builder?

10. Difference between failsafe and failfast in collection?

11. Guess the output

String s="abc";

String s1="abc";

String s2=new String("abc");

System.out.println(s==s1);

System.out.println(s.concat(s1));

System.out.println(s1==s2);

System.out.println(s1.equals(s2));

12. What is marker interface?

13. What is functional interface?

14. What is the need of lambda expression in our program?

15. How will create our own functional interface?

16. How will create immutable class?

17. Can you implement subclass for immutable class?

18. Which annotation is used in your project?

19. What is actuator and explain it?

20. What are the dependencies added in your project?

21. What is API gateway?

22. What is the difference between monolothic and microservice architecture?

23. What is @Qualifier, @Schedule, @Transactional annotation? Explain about this annotation?

24. How many methods used in java8 stream API?

25. What is flatmap () in java 8 stream API?

26. Find the common element

input:

List l= {2,4,3,2,1};

List l1= {3,1,2,5};

output:

{2,1.3};

**Darshan Wawale - L2 - 20th December, 2023**

1. Introduction
2. Explain 4 pillars of OOPS
3. Asked scenario based question on encapsulation
4. Foreign key and sequence foreign key
5. Internal working of hash map
6. Spring security flow
7. Difference between Hashmap and secured hashmap
8. Difference between Varchar and char
9. Difference between Localdatetime.now () and currentdate
10. What is grand command?
11. Explain Stored procedure
12. Explain Save and persist method
13. @transactional
14. How to enable cross origin in your project?

Anagram code-

List<String> of = List.of("eat", "tea", "tan", "ate", "nat", "bat");

String an;

Map<String, List<String>> collect = of.stream().collect(Collectors.groupingBy(t -> {

char[] charArray = t.toCharArray();

Arrays.sort(charArray);

return new String(charArray);

}));

System.err.println(collect);

1. If two thread have same priority which one execute first?
2. Can we declare abstract class as a final?
3. Class loading process?
4. Solid principle?
5. Iterator and innumerator diff?
6. What is the difference between functional interface, marker interface with example and when we will use it?
7. What is the difference between comparable and comparator interface and in which scenario we will use that?
8. What is serialization and deserialization?
9. What is bean? Why it is required in spring framework?
10. What is dependency injection and when we will use that?
11. What is the difference between lazy loading and eager loading?

**Jagan Gopi Cheparthi - L2 - 30th November, 2023**

1. What are the annotations you have used in your project?
2. Can you write an API for post request which will take user object having four attributes like id, name, phone number, age (create controller, service, repository)?
3. How you will validate data given from client in DTO?
4. If the validations are failed, what type exception you will get, how will you validate it?
5. How can you change http code dynamically based on the exception?
6. How can you change data sources in your project?

**Jagan Gopi Cheparthi - L1 - 22nd November, 2023**

1. What is the difference between inheritance and associations?
2. What is the work of a garbage collector? How it will do?
3. What is deadlock?
4. What is the difference between wait() and sleep()?
5. Difference between unmodifiablelist() and sychronizedlist()?
6. Internal working of hashmap?
7. Difference between hashset and treeset?
8. How hash value is calculated?
9. Difference between throw and throws?
10. How you can replace @springbootapplication?
11. Difference between @inject and @autowired?
12. When you will go for native query?
13. How u will change data sources in spring boot application?
14. What is the memory efficient scope?
15. What is spring actuator?
16. How you can define your custom annotation?
17. Is there any custom annotations inside java?

**Rajnish Kumar - L1 - 22nd November, 2023**

1. What is the difference between string, string buffer and string builder?
2. In which case, we should use string, string buffer and string builder.
3. What is type casting? Explain widening, narrowing, upcasting, down casting?
4. What is difference between

|  |  |
| --- | --- |
| int | Integer |
| string | String |
| boolean | Boolean |

1. What is wrapper classes and why do we need it?
2. What are the various methods present in wrapper classes?
3. How many ways to create String object?
4. What is difference between Heap area and String constant pool? explain how the objects gets stored in these areas?
5. What is the difference between “==” and equals() method?
6. What is the output of the programme?

String s1= “abc”; String s2 = “abc”

String s3 = new String(“abc”); System.out.println(s1==s2); System.out.println(s2==s3); System.out.println(s1.equals(s3));

1. What is generalization and specification?
2. What are the different ways of creating a thread?
3. What will happen if I use start() method of thread class on same thread before reaching the dead state of that thread?
4. What is the difference between static and default block?
5. What is abstraction?
6. How many ways we can achieve abstraction in java?
7. What is the use of constructor in abstract class if any?
8. Is any class can be abstract without having any abstract method? If yes, tell me when we will use that abstract class in this context?

**Sushma K N - L1 - 22nd November, 2023**

1. What do you know about react  
2. Functional vs Class component? What is useState  
3. What is the difference between static and default methods in interface?  
4. RestController vs Controller  
5. Constant vs Immutable  
6. String s="Hello ";  
   s.concat(" World");  
   System.out.println(s);  //Guess the output  
7. Find the emp records by chennai location using java 8  
8. Given a dictionary and a string ‘str’, find the longest string in the dictionary which can be formed by deleting some characters of the given ‘str’.   
  
Input : dict = {"ale", "apple", "monkey", "plea"}     
        str = "abpcplea"    
Output : apple  
9. What is a JPA Repository?  
10.What is the difference between int and Integer?  
11.LinkedList vs Arraylist  
12.TreeMap  
13.Internal working of Hashset

14. Employee(id, name)  
  
    Set<Employee> set=new HashSet<>();  
    s.add(new Employee(1,"Akash"));  
    s.add(new Employee(1,"Akash"));  
  
    System.out.println(set.size()); //Guess the outputWhat is the difference between functional interface, marker interface with example and when we will use it?

1. What is the difference between comparable and comparator interface and in which scenario we will use that?
2. What is serialization and deserialization?
3. What is bean? Why it is required in spring framework?
4. What is dependency injection and when we will use that?
5. What is the difference between lazy loading and eager loading?
6. What are the various annotation you use in your project in spring boot?
7. What is the difference between @Controller and @RestController?
8. Write an API for updating the salary column of an employee if we have the employeeId of a particular employee?
9. What is ResponseEntity?
10. What are the various method of Http request and difference between them?
11. Which version of java you are using and tell me its feature?
12. Write a programme of sorting the list in descending order using comparator functional interface using stream API?
13. Write a programme in which you have to print least occurrence duplicate characters if more than one characters print all of them? Ex: “MALAYALAM” output: “ML”
14. Write a program :

Input: list1 = {2,3,5,4,1,7,4,8,5,8,9,2} List2 = {4,2,7,8,9,2,3}

Output: {2,3,8,4}

Explanation: if the element present in list1 and are duplicate in that list and that particular element is also there in list2 then we have to return in an array of that elements.

1. What is Sonar Qube?
2. What is Mockito? And how to use it spring boot?