

Name: Charu Dubey

-----1st round-----

- 1.Introduce yourself
- 2.Explain your BE project (questions from the project)
- 3.Explain Your CDAC project
- 4.What is rest api.
- 5.which normalisation you used in your project explain it.
- 6.given a scenario from project in database and asked how you achieved it.
- 7.real life example where you saw use of linked list,stack,queue
8. what is the purpose of tree,graph in ds
9. oops concept
10. java string
11. what is ambiguity error
12. which collection you used in your project and why?
13. challenges you faced in project?
14. what exceptions came while working on project and how you resolved them.
15. Service of angular
16. tell me what you know about GIT
17. which operating system your team used. tell me command to know about service, which service is up and which is down
18. jvm,jdk,jre
19. what is servlet
20. how you deployed your project
21. which tomcat you used ,jar file or inbuilt one

-----2nd Round-----

1. Introduce yourself
2. Explain your BE project
3. Explain Your CDAC project, which technologies you used
4. I want to get details of employee from database so what will be the flow from angular side to database side.
5. do you remember 10th std maths? explain permutation, combination, what is $1/\sin$, how to get $\tan \theta$, trigonometry
6. given a word dataset of spark, asked me to search it on google, you have 1 min to read and explain it to me what you understood
7. what is data structure

8. push pop operation on stack
9. how to get a queue using stack
10. explain non linear data structure
11. which sorting technique you like and why. write code of it (i said insertion sort)
12. do you know about big data?
13. what is aws? and have you used it?
14. in which language java is written?
15. difference between c++ and java
16. why we use object oriented programming?
17. which is parent class of all the class in java?
18. what are the default methods of object class
19. if you are asked to work on database, would you do it?
20. equals and hashCode contract, and where you override hashCode method in your code explain
21. java collection
22. exception in java
23. why treeset doesnot accept null values?
24. If you are asked to learn new technology what would be your approach(example- learning then implementation, learning + implementing side by side or just learning)
25. can you make calendar,radio buttons, tables using angular
26. how you will create user defined exception.
27. why you preferred web service over soap?
28. I want to buy a laptop. what you will prefer me dos or windows and why?
29. what is component in angular?

Divyesh Kambli

First Round

- *Tell me something about yourself.
- *BE project (one question->what is raspberry pi).
- *Cdac project.
- *What is angular and advantages.
- *Which Collection have you used in our project.
- *Arraylist vs linked list.
- *What challenges have you faced in project.

- *What are the versioning tools you know.
- *How did you deploy your project.
- *Which tomcat you used ,jar file or inbuilt one.

Second Round

- *Tell me something about yourself.
- *Explain Cdac Project
- *Find the middle element in the linked list
- *What are types of sorting technique.And which of them is your favourite(Bubble Sort).Explain it
- *Reverse and array.
- *What is normalization.
- *Which normaliation have you used in your project.
- *Can we create your own exception
- *What are different types of maps.
- *Explain hashmap working.
- *Can we override hashcode method in map.
- *What is component in angular.

Third Round

- *Tell me something about yourself.
- *Tell me on what technologies have your worked on.
- *There are vaiours technial updates daily so how you utilize your free time to study them.
- *What is spring boot.
- *How spring boot application works(full working).
- *What is dependancy injection.
- *What are annotaions.
- *If you get late night calls would you be able to take it

TIAA

1st technical:-

1. Tell me about yourself?

2. Tell me about projects that you have worked on?
(some project related questions)
3. what is oops?
4. pillars of oops?
5. types of polymorphism?
6. method overloading and overriding?
7. what is exception?
8. draw exception hierarchy
9. checked and unchecked exception
7. write a program: i will provide you a string and the function should tell no of character occurrence
(ex: "akshay" -> a=2 k=1 s=1)
8. write a same program using hashmap
9. what is hashmap?
10. collection hierarchy
10. difference between arraylist and linkedlist
11. what is controller?
12. what is service?
13. what is hibernate?
14. what is jpa repository?
15. REST api
15. i have a 100 balls and 100 floors, at a particular floor ball breaks.
how to get that floor using minimum balls

2nd technical:-

1. Tell me about yourself?
2. Tell me about your project?
3. your favorite module
4. what main method returns in java?
5. can we make main method private?
6. what is static variable?
7. what is instance variable?
8. what is oops and pillars of oops ?
9. difference between abstract class and interface
10. write a program for prime number
11. what is merge sort
12. write a program for merge sort(just a main part)
13. write a query for counting the no. of employees department wise

14. draw venn diagrams of all joins
15. if i design a OS on which parameter you will judge the that OS
16. list the scheduling algorithms
17. what is statistics?
18. what is $1/\sin\theta$?
19. how to calculate area of circle
20. perimeter of circle
21. if there are 10 birds in on a tree one died how many left?
22. now if i fire a gun shot how many left?

managerial round:-

1. tell me about yourself and about your hobbies?
2. what data modeling you would use while developing UBER app?
2. what is your strength?
3. about your weakness
4. tell me about your project
5. write a program to check if it is a circular linkedlist ?
6. drawn extra node outside the circular linkedlist and asked how to traverse it(just approach not code)

Interview Round 1

=> Introduce yourself.

=> Explain SDLC(Software Development Life Cycle).

=> What is your experience in software testing and what do you know about it.

=> Explain the logic for the following(Considering time and space complexity):

1.We have an ArrayList having string elements, we need to sort it alphabetically without using sort() method.

2. We have an array of 5 integers, we want to remove the 4th(second last) integer from the array.

3. Same as above scenario but with ArrayList.
(We have an arraylist of 5 integers, we want to remove the 4th(second last) integer from the arraylist.)

4. We have a string, how to check if it is Palindrome or not in java.

=> Difference between overloading and overriding.

=> Explain the concepts of OOPS with the help of an example.

=> Difference between Encapsulation and Abstraction.

=> Explain the operations of Rest API(CRUD Operations).

=> If we are performing PUT operation but there is no such record to update, what will happen?

=> Which application softwares have you used to test the operations of Rest API.

=> What all operations can you perform in postman application.

=> Have you used any source control or versioning tool?

=> what do you know about github?

=> Explain difference between commit and push.

=> What you know about software testing tools like Selenium.

=> In java, consider we have two classes -> Class A and class B.

We want to access a method from class A in class B but we don't want to use inheritance and we don't want to create an object of class A. How can we access it?

Interview Round 2

=> Introduce yourself, tell me about your academics and project in cdac.

=> Asked to share the screen and write following programs on notepad(write the code in most optimized way, considering time and space complexity):

1. Write a program to divide an array of 'n' number of elements into smaller chunks.
2. Write a program to sort an array of integers.
3. Write a SQL query to find name of employee having 2nd largest salary from Table -> Employee(empid,empname,salary).

=> Explain the concept of overloading and overriding.

=> Explain Encapsulation and Abstraction with the help of an example. Explain their difference using an example.

=> Explain Type casting in java.

=> Consider we have a Hashmap, 'hmap' and we are doing following operations on it:

```
hmap.put(1,"abc")
hmap.put(2,"xyz")
hmap.put(3,"lmn")
hmap.put(2,"pqr")
```

Is it possible? If yes, what value will I get if I access the value of hmap with key as '2'?

=> Explain your project.

=> What kind of testing have you done in your project.

=> I have a hashmap with following elements:

```
hmap.put(1,"abc")
hmap.put(2,"xyz")
hmap.put(3,"lmn")
```

Now, I want to update the value of element with key 1 to "pqr".
How can I update the value?

=> Why do you want to work with us?

=> Why should we hire you?

Interview Round 3

=> Introduce yourself.

=> Apart from Academics, what do you do.

=> Discuss on Extra-curricular activities, importance of sports in India, Education system of India(Wanted to know my point of view on each topic).

=> What was your CDAC project?

=> What was your contribution in the project?

=> How did you check if all the services were working properly before integrating them with the frontend?

Name :- Vaibhav Mahadev Kokate

Company Name :- TIAA India

1st Technical Interview :-

1) Introduce yourself.

2) Tell me about your CDAC project.

(After explaining project, she asked some questions regarding project and also give some scenario in project and asked approach regarding it.)

3) Explain OOPS concept with real time example.

4) What method overloading and method overriding and give real time example of both of them ?

5) Is Java platform dependent or platform Independent ? and how ?

6) Explain JDK, JRE and JVM in brief.

7) What are Runtime memory areas in java ?

8) What is final ?

9) Super keyword and where it is used ?

10) What is wrapper classes in java ? (Explain it)

11) How many ways String is created in java ?

What is string pool in java ?

What is mean by string is immutable ?

(Also given some string program and asked output of program like where it will stored, both are equal or not etc)

12) What is Exception handling ? Explain exception hierarchy.

Explain Checked and unchecked exception. Also give 5 checked and 5 unchecked Exception.

- 13) Explain joins in database.
- 14) Difference between delete and truncate.
- 15) Explain primary key and foreign key.
- 16) What is JUnit testing ? Have you done in your project ?

What is black box and white box testing ?

Given example of form and asked how will u perform testing.
- 17) Tell me about spring framework.
- 18) What is spring boot ?
- 19) Difference between Controller and RestController.

2nd Technical Interview :-

- 1) Tell me about yourself.
- 2) Explain major pillars of oops with examples.
- 3) Which concept do u like in java and why ?(I said collection and Exception handling but not a single question where asked on it in this interview)
- 4) What is JVM ? Explain it.
- 5) Difference between final, finalize(), finally.
- 6) Types of polymorphism. Explain them.
- 7) Why multiple inheritance is not supported in java ?
- 8) What is difference between abstract class and interface ?
- 9) How many ways object will be created in java ?
- 10) What is mean by thread ? How many ways thread can be created ?
- 11) What is throw keyword ? Difference between throw and throws.
- 12) What is thread pool ? Where it is used ?
- 13) What are Java 8 enhancement ?
- 14) What are types of SQL commands ?

Explain different types of joins in sql.

(Also given two tables and asked to perform all joins on it and give output of all joins)

Difference between primary key and unique key.

What is second normal form (2 NF)?

Explain stored procedure and functions.

15) Explain different operations of queue.

How do u implement stack using queue ?

Find mid element in LinkedList ?

16) There are questions related to testing like lifecycle of testing, how do u performed testing in your project.

17) What is SDLC ? Explain it.

18) Also asked some logical question on Array.

19) Tell me some Linux commands.

20) What is version control system ? Have u used any ?

Managerial Round -:

1) Introduce yourself.

2) Which language do u like ? and why ? (I said Java so asked next question why)

3) What is advantages of java over other languages like c,c++ ?

4) Tell me about your academic as well as CDAC project.

(He asked to explain BE project and asked questions like which database do u used, how to perform that particular mechanism, what problems do u faced, what is your contribution in your project)

5) In CDAC project which database used ? Give some name of tables of your project.

6) Then given some real time scenario on project like if u have an application and on particular days if there will increase in traffic on your application. Then what action and precaution u will perform ?

7) What is triggers ? Have u used triggers in your project ?

8) Tell me about TIAA

9) Why should I hire you ?.