

**YouTube:** [https://youtube.com/channel/UCK0phPzZ0VV5ihP\\_0SgL9HA](https://youtube.com/channel/UCK0phPzZ0VV5ihP_0SgL9HA)

**Facebook:** <https://m.facebook.com/groups/1108853923267022/>

**Telegram:** <https://t.me/CDACMarathicoders>

**LinkedIn:** <https://www.linkedin.com/groups/12633615>

**Twitter:** [@marathicoders](https://twitter.com/marathicoders)



## Subject Wise Questions

### Object Oriented Programming

1. What are object oriented concepts? What is difference between object-based, object-oriented and fully object-oriented language?
2. What are advantages of Object Oriented Programming?
3. What is class and object? Give real-life example.
4. What are characteristics of object? Explain them.
5. What is the need of getter and setter functions in class?
6. What is abstraction and encapsulation. Give real-life example.
7. What is polymorphism? What are its types? Explain them with examples.
8. What is function overloading? Which are the rules of function overloading? Why return type is not considered in function overloading?
9. What are different types of hierarchy? When to use which one?
10. What is the difference between function overloading and function overriding?
11. Why constructor is considered special member function of the class?
12. What is object slicing? Explain object slicing in context of upcasting?
13. What is down-casting and when it is required?
14. What do you know about association, composition and aggregation. Explain with the help of example.
15. What are different types of inheritance? Explain with the help of example. What are problems with multiple inheritance?
16. Which are the different types of design pattern? Explain singleton design pattern.

### Core Java

1. What is wrapper class? What is their use?
2. Which are methods of java.lang.Object class? Which are native methods of object class?
3. What is the need of package? Which types are allowed to declare in package?
4. Why we can not declare multiple public classes in single .java file?
5. What is the difference between import and static import?
6. How can we pass argument to the method by reference? Explain with example?
7. What is the difference between checked and unchecked exception?
8. Which are the advantages and disadvantages of generics?
9. What is difference between Comparable and Comparator?
10. What is difference between ArrayList and Vector? How to use ListIterator?
11. What is fail-fast and fail-safe iterator?
12. What is serialization and deserialization? What is significance of serialVersionUID?
13. What is relation between Thread start() and run() method?
14. When we should create thread by implementing Runnable and extending Thread class?

15. What is functional interface? Which functional interfaces are predefined and where they are used?
16. What is significance of filter(), map(), flatMap() and reduce() operations? In which scenarios they are used?

## Java EE

1. Explain Servlet & JSP life cycle?
2. What is difference between Redirect and RequestDispatcher scenario?
3. What is session tracking? How to do it in java?
4. What is hibernate? Explain hibernate architecture.
5. Explain hibernate entity life cycle?
6. What is the difference between get() and load() of hibernate?
7. How can we call stored procedure in hibernate?
8. What is IOC and Dependency injection?
9. What is auto-wiring? Which are the types of auto wiring? What if prototype bean is auto-wired in a singleton bean?
10. Explain spring bean life cycle. Explain spring bean scopes.
11. What is use of @Transactional? Why it should be used on service layer?
12. Explain Spring MVC life cycle?
13. What is the difference between SOAP and REST? What is significance of RestController?
14. What is Spring Boot? What do you mean by opinionated defaults? How auto-configuration works?
15. What is significance of @CrossOrigin? How it works?

## O.S.

- What is the main purpose of an operating system? Discuss different types?
- What is a socket, kernel and monolithic kernel ?
- Difference between process and program and thread? Different types of process.
- Define virtual memory, thrashing, threads.
- What is RAID ? Different types.
- What is a deadlock ? Different conditions to achieve a deadlock.
- What is fragmentation? Types of fragmentation.
- What is spooling ?
- What is semaphore and mutex (Differences might be asked)? Define Binary semaphore.
- Belady's Anomaly
- Starving and Aging in OS

Why does trashing occur?  
What is paging and why do we need it?  
Demand Paging, Segmentation  
Real Time Operating System, types of RTOS.  
Difference between main memory and secondary memory.  
Dynamic Binding  
FCFS Scheduling  
SJF Scheduling  
SRTF Scheduling  
LRTF Scheduling  
Priority Scheduling  
Round Robin Scheduling  
Producer Consumer Problem  
Banker's Algorithm  
Explain Cache  
Diff between direct mapping and associative mapping  
Diff between multitasking and multiprocessing

## DBMS

What is DBMS ? Mention advantages..  
What is Database?  
What is a database system?  
What is RDBMS ? Properties..  
Types of database languages  
ACID properties (VVVVV IMP)  
Difference between vertical and horizontal scaling  
What is sharding  
Keys in DBMS  
Types of relationship  
Data abstraction in DBMS, three levels of it  
Indexing in DBMS  
What is DDL (Data Definition Language)  
What is DML (Data Manipulation Language)  
What is normalization ? Types of them ..  
What is denormalization ?  
What is functional dependency ?  
E-R Model ?  
Conflict Serializability in DBMS ..  
Explain Normal forms in DBMS  
What is CCP ? (Concurrency Control Protocols)



{CODERS}

Entity, Entity Type, Entity Set, Weak Entity Set..

What are SQL commands ? Types of them..

Nested Queries in SQL ?

What is JOIN .. Explain types of JOINS

Inner and Outer Join

Practice sql queries from leetcode

Diff between 2 tier and 3 tier architecture

Diff between TRUNCATE and DELETE command ..

Difference between Intension and Extension in a DataBase

Difference between share lock and exclusive lock, definition of lock

Computer Networks

Define network

What do you mean by network topology, and explain types of them

Define bandwidth, node and link ?

Explain TCP model ..

Layers of OSI model

Significance of Data Link Layer

Define gateway, difference between gateway and router ..

What does ping command do ?

What is DNS, DNS forwarder, NIC, ?

What is MAC address ?

What is IP address, private IP address, public IP address, APIPA ?

Difference between IPv4 and IPv6

What is subnet ?

Firewalls

Different type of delays

3 way handshaking

Server-side load balancer

RSA Algorithm

What is HTTP and HTTPS protocol ?

What is SMTP protocol ?

TCP and UDP protocol, prepare differences

What happens when you enter "google.com" (very very famous question)

Hub vs Switch

VPN, advantages and disadvantages of it

LAN

Technical Round

Write a binary search program  
Method Overloading vs Overriding  
Collection Hierarchy  
Which collection is thread safe  
What is Load balancer  
WAP to add 2 numbers without + operator  
Explain project  
Spring vs Spring Boot  
Spring Boot Annotations  
What is REST  
Write a REST API  
Write a select query to print 3rd highest salary  
Again above query without using limit  
Difference between SQL and NoSQL database  
What do you know about System Design  
What is CI/CD pipeline  
Explain React

HR Round

Tell me about yourself  
Explain your College and CDAC project, what challenges did you face and how did you overcome those challenges?  
Why did you choose this company  
Do you have any questions for us



{CODERS}

Coupa

Coupa first round (Rahul bhadwar )

Rahul bhadwar

Coupa first round

Oops concept

Polymorphism in details

Tcp protocol

Deadlock

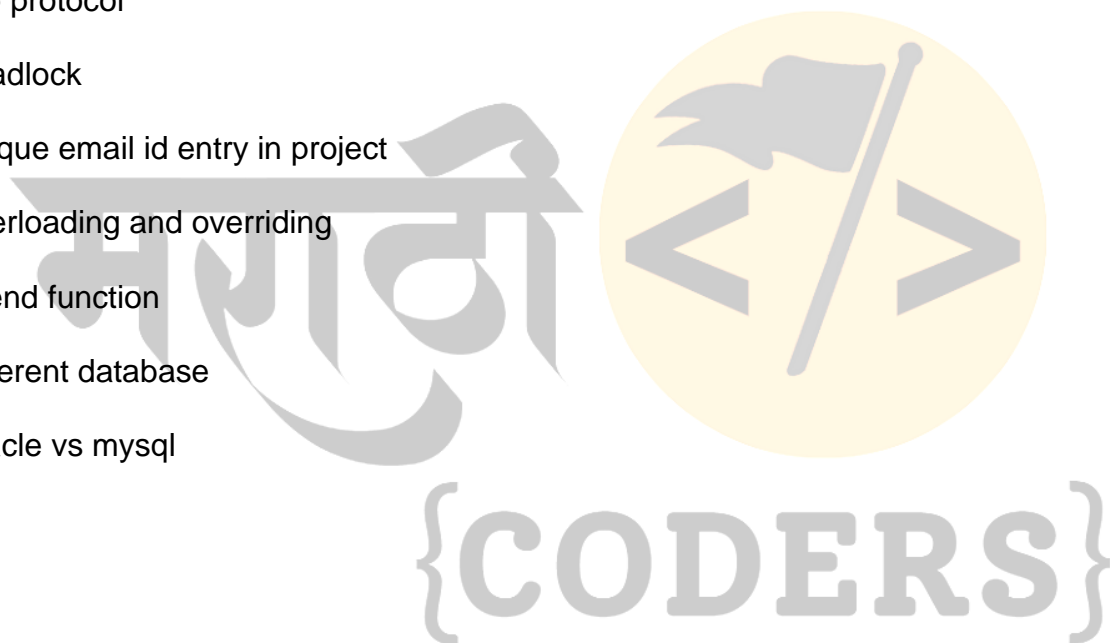
Unique email id entry in project

Overloading and overriding

Friend function

Different database

Oracle vs mysql



10/10/2022

company  
Coupa

Page No.

Date

youva

Coupa 1st round

- 1) What is dynamic & static programming
- 2) How to connect sql db to the web server.
- 3) Which is fastest sort. (Quick Sort)
- 4) inner & outer join diff.
- 5) What is Algorithm
- 6) Life cycle of SDLC
- 7) Leap year program
- 8) Logical probability.
- 10)

Coupa 2nd round

- 1) abstraction
- 2) private protected  $\rightarrow$  diff
- 3) git commands.
- 4) <sup>sayu</sup> ~~what is~~ static or dynamically typed.
- 5) What is object oriented language.
- 6) What is graph
- 7) linear & non linear data structure.
- 8) logical questions. about program
- 9) What is garbage collection.
- 10) What is exception handling.
- 11)



**Gaurang Shende**

Coupa 1st Round

Design database for Blog website

Tables, columns, data type, relations, keys.. etc

Gave 2 codes asked for output

Asked reason behind output

Gave me problem to solve

Num is given eg 7

Need to print star pyramid

When the total no of stars reach 7 stop

For Eg:

\*

\*\*

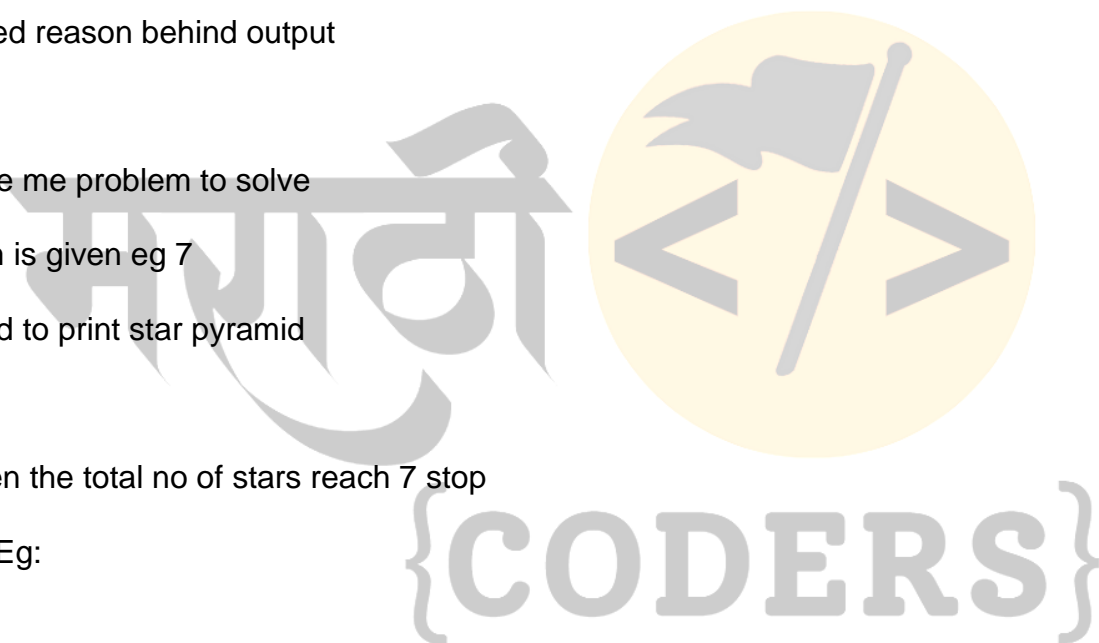
\*\*\*

\*

Difference between overloading and overriding

Can we overload within the class

Some more Core Java based questions



Tell me about your project

Round 2

What is Queue

What is Stack

Code snippet for Reversing word

Code snippet for Reversing sentence with commas and space

Why we use Linked List

How to traverse Linked List

What is Binary Search

Pseudo Code of Insertion Sort

Write a Sql query to get name of emp with 3rd highest salary

Explain you project database design

Explain relationships

Why do we use index on database

Explain your project

Asked question about Project: why did you do this? And cross questioning answers

Asked about the design plan of project

How did you handle XXX question on project

How did you handle state management

Tell me about your 2nd project

3rd Round

Tell me about yourself in 3 Lines

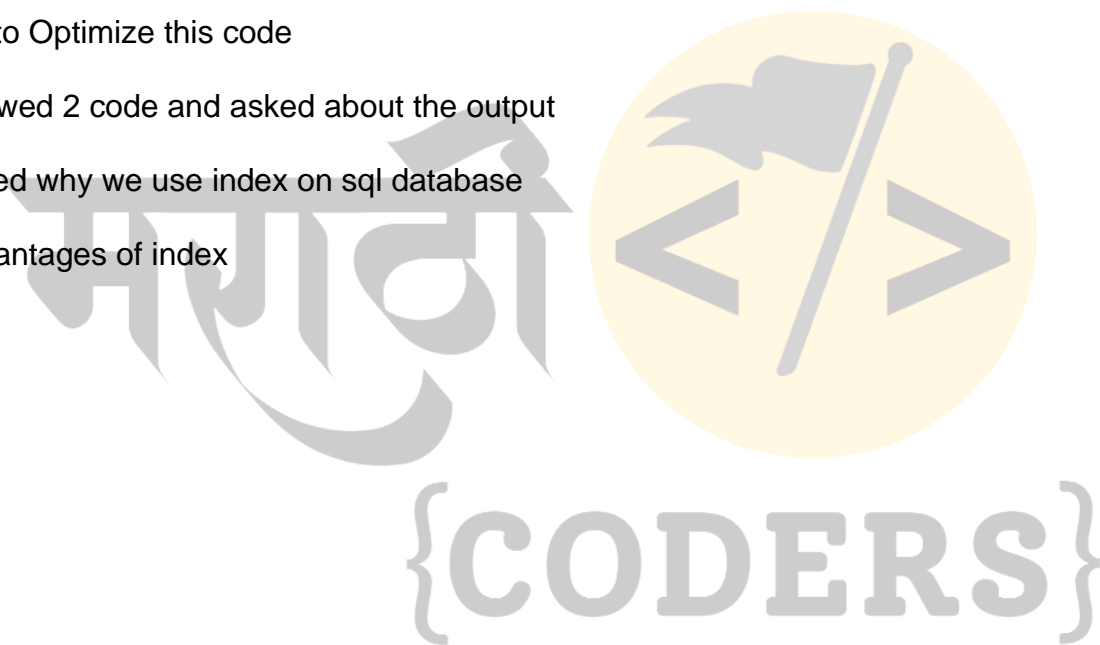
Write a code for finding max from 3 number

Try to Optimize this code

Showed 2 code and asked about the output

Asked why we use index on sql database

Advantages of index



Disadvantages of index

Tell me about your project

Explain the sql database schema design

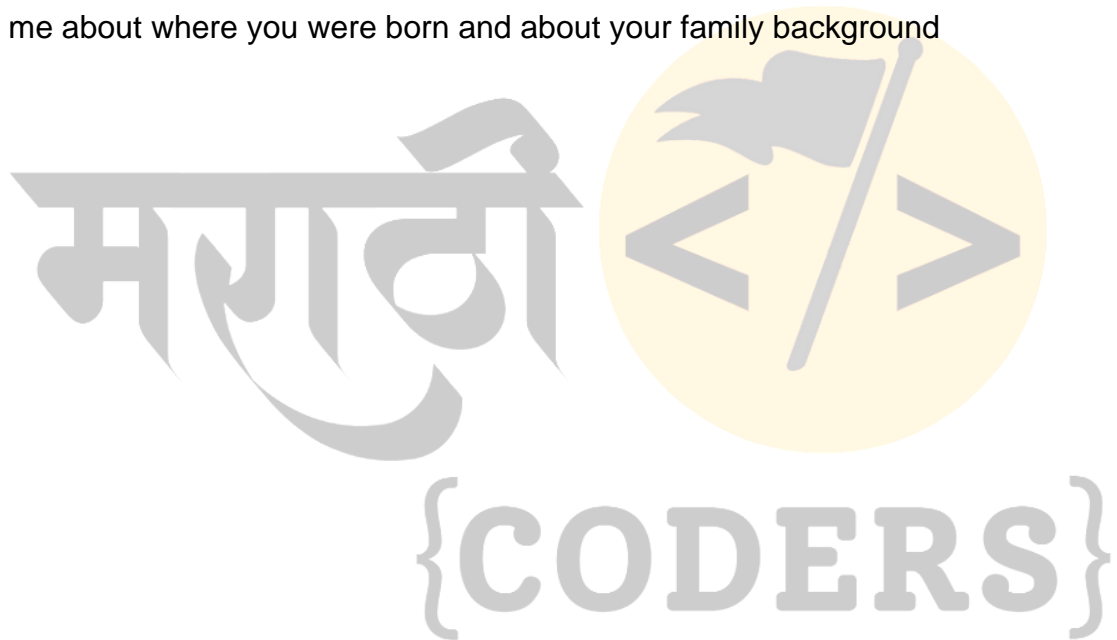
Cross questioning the design

Do you know about cloud computing

How did you deploy website on AWS step by step

What issues did you face while deploying website

Tell me about where you were born and about your family background



## Coupa R(1) 1 hr Mandar

- ① what is oops ? Benifits ? Procedural prog Vs OOps
- ② Abstraction (Example)
- ③ Encapsulation (-||-)
- ④ Diamond problem ? Example
- ⑤ Solution of Diamond problem in Java (Interface)
- ⑥ Interface before 1.8 version & 1.8 version before.
- ⑦ Abstract class → Show Example
- ⑧ Abstract class Vs Interface.
- ⑨ Polymorphism → 1) Overloading 2) Overriding Code
- ⑩ Inheritance Code ; Types of inheritance
- ⑪ Code → (min & max from array)  
How to return multiple int from function
- ⑫ full form of SQL (हेनरी जमल 😊)
- ⑬ few Queries.

## R(2) 1 hr

String str = "0123456789";

find max Substring such that

- 1) Left part of string & Right part of string must has same No. of ~~g~~ digits.
- 2) Left part of string & Right part of string must has same sum.

1st: 10/10/2022

Intro

OOPs

OOPS details

constructors

exception handling

one table scenario: basically they test you Join knowledge

String reversal with omit the vowels : how many ways, any other way to reduce complexity

array: desc order but all 0s will at first place

---

L1: 11/10/2022

Intro

Java basics

Oops major, minor

checking knowledge of collection, object class

sql : 2nd highest

palindrome wish scenarios

new added java 8 features(also in interface like default and static methods)

They check deep knowledge of programming/database

---

L2: 12/10/2022

Intro

non technical like my past company experience

Heap stack theory(in deep: where it lie in computer)

Reference of objects in deep

e1 is obj, e2 is obj

if e2=e1

e1.i=5000

e2.i=?

and why?

e1=NULL

e2=?

Convert number to work

1= one

22= Twenty two

868= eight hundred and sixty eight

Code for undo redo

1234 => 123

Undo 1234

1234=> 123=>1235

undo 123 undo 1234

redo 123 redo 1235

Coupa Software

1st Round : Technical

1. Introduce yourself
2. How you rate yourself in coding?
3. Tell me something about your project and what technologies you have used?
4. Why you have used MySQL in project?
5. Have you worked on any Linux OS? Do you know the concepts of Operating System?
6. Where did you deploy your project?
7. Suppose, while deploying your application is not working, how will you tackle this?
8. Explain annotations
9. While deploying if tomcat is not working, how will you resolve that?
10. Tell me about binary tree.
11. Write a program to reverse a number. Explain each step.
12. Do you have experience of using Cloud (AWS or any other)?

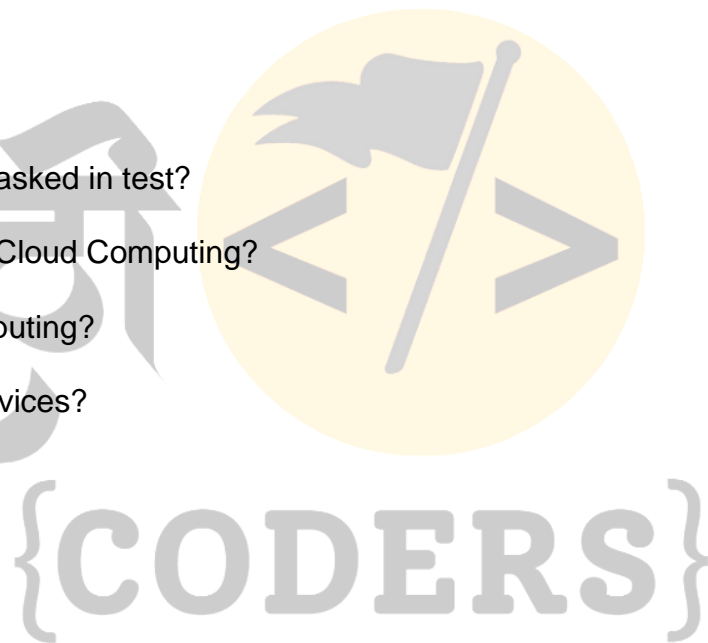
13. Which project you have deployed on AWS?
14. How did you access AWS?
15. Do you know S3? (It is Amazon Simple Storage Service)
16. Program to count the vowels in a given string.
17. How to check running processes in machine?

Checked my Resume at last

18. Do you want to ask anything?

## 2nd Round : Technical

1. Can you recall the questions asked in test?
2. Do you know anything about Cloud Computing?
3. Purpose of using Cloud Computing?
4. How do you access cloud services?
5. What is SSH?
6. Have you used Linux?
7. What is Bash shell?
8. What is shell scripting?
9. Programs you have done in shell scripting
10. Different commands in linux.
11. Explain each OOP concept with real life example.
12. Explain in detail different blocks used in exception handling
13. Write a program to get the count of occurrence of unique word from a given string.  
(after giving solution, told me to use different logic)
14. Given an array, rotate the array to the right by the k steps, where k is non-negative.





example:

Input: nums = [1,2,3,4,5,6,7], k = 3

Output: [5,6,7,1,2,3,4]

Not to use array, shift/unshift, delete/pop etc methods

No extra separate array

Need to share screen, write program on notepad, and explain each step while writing code.

15. What do you know about Databases?

16. Explain the properties of RDBMS

17. What is System Data and System architecture?

18. Suppose I want to build a Library Management System, how will you design it?

(Need to explain the whole process, from requirement gathering, wireframe design, making SRS, Use-case diagrams, Database design, normalizing tables, process of configuring database connection with back-end, what layers and classes will be used in backend, annotations, data flow, connecting to front-end and all remaining)

19. Do you have any question for me?

3rd Round :

Technical:

1. Introduce yourself

2. Why did you choose CDAC as your background is non-IT?

3. Is CDAC your first exposure to programming ?

4. Tell me the program to access the text file and count the occurrences of each unique word present in the file.

5. Write a program to find the missing from array with length 10 thousand having elements ranging from -3000 to 7000. Explain time complexity for each possible situation.

6. How to implement Queue data structure using stack? (After telling my logic, told me to use another approach as my approach had many iterations which were time consuming)

Puzzles:

1. You have given 3 boxes, one contains Red balls, one contains Yellow and the remaining one contains mixture of both Red and Yellow. Each box has label of colour but none of them is correct. You have to pick only one ball from any box and guess what should be the correct label for each box

2. You have two containers, first one with 3L capacity and second with 5L. You need to measure exact 4L of water using these two containers. (You can not make any kind of marking on containers)

Coupa 1st Round

short introduction

Explain project and role

What Api's implemented in project

how Controller knows that return value should be JSON object

Diff between Hibernate and JPA

If we do not have hibernate jar but have used JPA what error will it give- compile time or runtime

diff between session and cookie

Why React JS

which sorting algorithm is best

difference between array and linked list

what are type of trees, application of red and black tree

diff overriding and overloading

Coupa 2nd Round

short introduction

Explain OOPs concepts

OS- what is semaphore

what is multithreading

SQL:

- Find all the user from employees table (id, name , email)

```
select * from employees;
```

- Find first 50 the employees from employees table sorted by email

```
select * from employees
```

```
order by email
```

```
limit 50;
```

- Another tables employers (id, name, address)

and a bridge table employers\_employees (employee\_id, employer\_id)

Give me name of the employers having Employee as first name = "Sanket"

select e.name

from employers e join employers\_employees b on e.id=b.employers\_id

join employees emp on b.employee\_id=emp.employee\_id

where emp.name="Sanket"

- Infix to Postfix expression:

The infix expression :  $x^y / (5 - z * 6) + 2$

Output Postfix expression:

$xy^/(5-z*6)+2$

$xy^5z6^*/2+$

Using stacks:  $xy^5Z6^*/2+$

- Type of Sorting algorithms:

Sort numbers: 30 20 10 50 100 70 40

Bubble Sort:

30 20 10 50 70 100 40

20 10 30 50 70 40 100

10 20 30 50 40 70 100

10 20 30 40 50 70 100

```
int temp;
```

```
for(int i=1;i<n;i++)
```

```
{
```

```
    int s=0;
```

```
    for(int j=i-1;j<n-i-1;j++)
```

```
    {
```

```
        if(a[j]>a[j+1])
```

```
        {
```

```
            temp=a[j];
```

```
            a[j]=a[j+1];
```

```
            a[j+1]=temp;
```

```
            s++;
```

```
        }
```

```
    }
```

```
    if(s==0)
```



{CODERS}

```
break;  
}
```

// FizzBuzz Problem:

// Iterate over 1 to 100

// Print fizz if no is div by 3

// Print buzz if no is div by 5

// Print fizzbuzz if no is div by 3 and 5 both

```
StringBuilder s="";
```

```
for(int n=1;n<100;n++){
```

```
    s="";
```

```
    if(n%3==0)
```

```
    {
```

```
        s="fizz"
```

```
    }
```

```
    if(n%5==0)
```

```
        s=s.append("buzz");
```

```
    if(s.length()>0)
```

```
        sop(s);
```

```
}
```



{CODERS}

round 3

detailed introduction

why to add @Override on overridden method

what you consider your biggest achievement

what is biggest blunder you have done

what run dynamic binding or late binding explain with example in IDE

find longest substring without repeating characters solve in IDE

puzzle - 5 boxes containing multiple balls, 4 boxes have balls of 10gm weight 1 box have 9 gm of balls, given digital weight measuring machine what is least number of attempts required to identify box with 9gms. Ans - 1 attempt - take 1 ball from 1st box 2 from 2nd and so on - now total balls are  $1+2+3+4+5=15$ , if all were 10gm then total would be 150gm, so in case 1st box have 9 gm balls then weight will be 149 as one ball of 9gms

similarly if 2nd box have 9gm balls then as there are 2 balls of 9gm total weight will be 148gm and so on we can find accordingly.

given 2 sorted array how will you store these 2 arrays in resultant sorted array - pseudo code

given string of int from 0-9 ("1231238") find max sub string with below condition

1. when divided in equal parts sum of both left and right substrings should be equal

e.g 123 | 123 == 6 so result=123123

Sagar Bhilawade

Coupa round 1:: (Taken by 2-3 years experienced Guy)

What is oops?

What is abstraction?(while giving ans i gave an example my specs)

Make a class of your specs ?Files and Methods

Explain Project in short?

Write a code to print right angle Triangle?

Then little bit on data structure like linked list stack queue just concepts?

Coupa Round 2::(Taken By 10-12 years experienced guy)

How internet works?(starting 5 minutes conversation )

Again little bit on oops

Write a code to print all palindromic substrings from a string? e.g abaaba ans: aba aba abaaba

Write a query to get a employess who is not manager..(Table Structure:: empno,ename,mgrno)

Explain a project.

Scenario:(almost 25-30 min discussion)

Suppose Google assigned you as tester for gmail .What things /Functionality you will check?

Coupa Round 3::(Taken By VP)(like hr +technical)

Introduction.

Why Civil to IT?

Explain Project.

What challenges You have faced in your project?

What Was your role in project?



Concepts of Database?

What is normalization explain why we need it?

Little bit on Data Structures?

What is rest?

What is JUnit Test?

What is collection?

(Then i asked at last sir how was it? Then he replied You need to improvise in some things but u can make that with my teammates...But still he rejected me 😞😞)

---

Coupa (Shubham Pisal sunbeam)

Round 1

1. Tell me brief about Your Project and Your Role in Project ?
2. How does JWT token work explain such as NONTECHNICAL guy will understand?
3. What JSX?
4. What types of components are in react and which will you use?
5. What are hooks in react ?
6. What are props?
7. What is redux ?
8. What is oops concepts ?
9. What is class ?
10. Difference between class and objects?
11. What is constructor and its types?
12. What is destructor ?

13. What is Access Specifiers?

14. how will make sure a class cannot be extended further ?

15. how can you add some methods to a final/sealed class ?

16. Asked to perform 1st Normalization form on some data?

Round 2

1. How was your 1st Round ?

2. Difference between http and https ?

3. What is TCP protocol?

4. What are layers in TCP/Ip protocol?

5. How will you make a website available to users ? (Asked How will you deploy website without using

deploy word)

6. What happens when we enter some website address in searchbox of browser ?

Read How DNS works (Domain Name System ) and how browser gets ip address from DNS

7. what is inner join and outer join?

8. write an left outer join on a table say t1 and t2?

9. Asked how will you find max and secondMax element from array ?

10. If i gave you a number then an array will be having number from 1 to that number But 1 number will be

missing How will you find missing number ?

example 10 and array {2,5,1,3,4,6,10,7,8} here missing number is 9 how will you find it

Based on answer given to above questions he asked the following question

7. Find a longest subArray having maximum sum from an array ?

Here is Question

### Round 3

1. Introduce Yourself ?

InterviewQuestions.md 10/15/2022

2 / 2

2. Why Mechanical to IT ?

3. Why did you choose Mechanical ?

4. What advantage you have over an IT student as you belong to mechanical?

5. which programming language you like and which you don't like?

6. what is difference between c and c# or Java?

Asked to justify answer

7. How will you sort array (Choose which you think best sort is)

8. Why do you think Quick sort is best ?

9. What is divide And Concur ?

10. How will you divide Array in Quick Sort ?

11. What operations we perform in Quick sort?

12. How to choose pivot in quick sort ? (last first or middle element )

13. What is time complexity of Quick sort ?

14. When worst case came in Quick Sort?

15. How will you avoid worst case in Quick Sort?

16. How Merge sort works ?

17. How we merge arrays in merge sort?

18. What is time complexity in merging multiple sorted subArrays ?

19. How multiple subarrays can be merged more effectively (This question can be ignored It uses binary

tree or binary heap)

20. Why do you think quick sort is better than merge sort?

21. Best options than merge and quick sort?

22. What is time complexity of recursive code for fibonacci series ?

$f(n)=f(n-1)+f(n-2);$

look for tree method to find time complexity of recursive method

23. what is better way to do fibonacci series ?

iterative (By loop)

23. what is time complexity of iterative code for fibonacci series ?

24. what is space complexity of iterative code for fibonacci series ?

Coupa

**Student Name : Gaurang Shende**

Coupa 1st Round

Design database for Blog website

Tables, columns, data type, relations, keys.. etc

Gave 2 codes asked for output

Asked reason behind output

Gave me problem to solve

Num is given eg 7

Need to print star pyramid

When the total no of stars reach 7 stop

For Eg:

\*

\*\*

\*\*\*

\*

Difference between overloading and overriding

Can we overload within the class

Some more Core Java based questions

Tell me about your project

Round 2

What is Queue

What is Stack

Code snippet for Reversing word

Code snippet for Reversing sentence with commas and space

Why we use Linked List

How to traverse Linked List

What is Binary Search

Pseudo Code of Insertion Sort

Write a Sql query to get name of emp with 3rd highest salary

Explain you project database design

Explain relationships

Why do we use index on database



{CODERS}

Explain your project

Asked question about Project: why did you do this? And cross questioning answers

Asked about the design plan of project

How did you handle XXX question on project

How did you handle state management

Tell me about your 2nd project

3rd Round

Tell me about yourself in 3 Lines

Write a code for finding max from 3 numbers

Try to Optimize this code

Showed 2 code and asked about the output

Asked why we use index on sql database

Advantages of index

Disadvantages of index

Tell me about your project

Explain the sql database schema design

Cross questioning the design

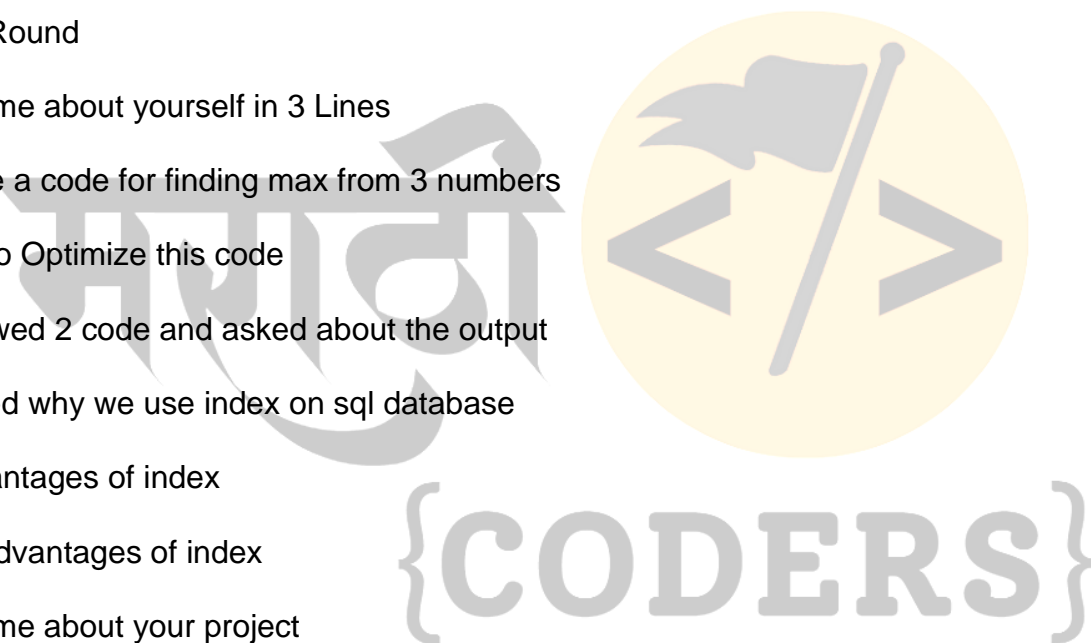
Do you know about cloud computing

How did you deploy website on AWS step by step

What issues did you face while deploying website

Tell me about where you were born and about your family background

**COUPA**



Name: Kaustubh Pathak

### 1st interview

Write an sql query to find the 3rd highest salary from an employee table. Are there any other ways to do the same thing other than your query?

Given an array write a java program to sort only those elements which occur more than once in that array. Explain the logic and the time complexity. Is there any way to optimize this code?

Given two arrays check if elements of one array are present in the second array sequentially. Explain the logic and the time complexity. Is there any way to optimize this code?

What are maps? Explain their working.

What is Http. Explain the difference between http and https.

### 2nd interview

How would you design a UPI payment system like paytm or Google pay from scratch. (In this there were questions at every step that why would you do it like this... Is there any other way to do the same thing. In which ways can the system fail. )

Questions regarding hosting the project on cloud.

### 3rd interview

Initial questions about my background of mechanical engineering and my government exam preparation.

Explain the database schema of my project.

In my project database i was asked to write a query which required joining 3 tables.

What are sql joins. What are different types of joins

Estimation problem - Estimate the number of apartments in Pune.

Give me two reasons why should we hire you.

Few questions about my hobbies.

-introduction

-array program to find duplicate element(cross question) and use different method(reduce time complexity)?

-oops concept in details and e.g(cross question) and where you use in project?

-explain construtor and e.g?

-one program solution(same code modified 3 time)and cross question?

-database

create table?

write query ?

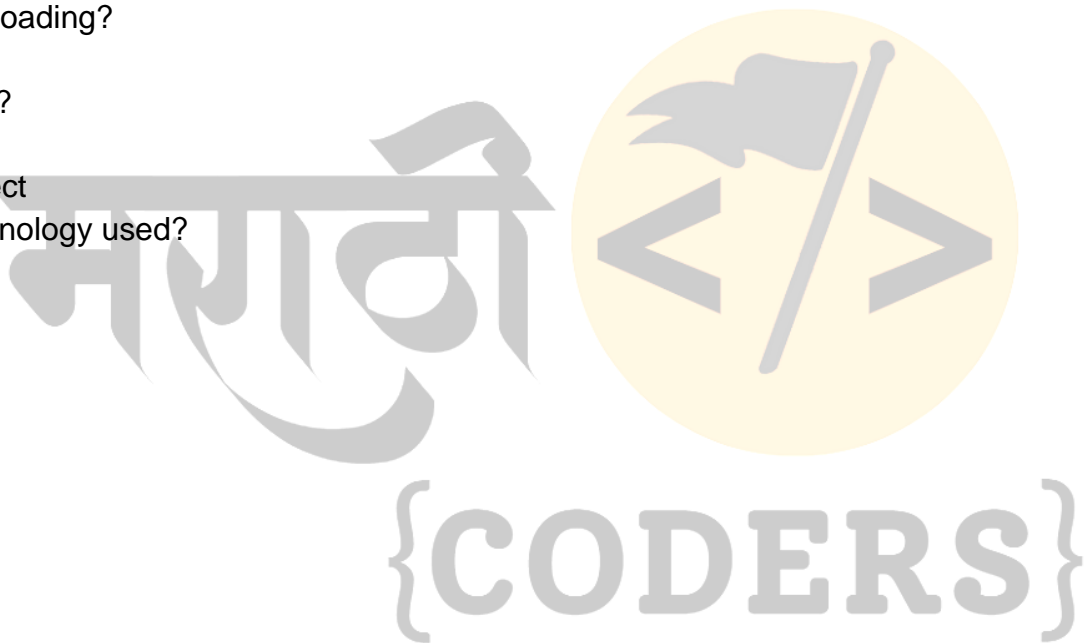
-bubble sort program(cross question)?

-overloading?

-tree ?

-project

technology used?





Cdac Pune

Spring MVC

features of java

already banavlelya table madhe jar add karaycha asel coloum like Date of birth tar kasa karaycha

annotations you used in program what do they do

starting la combined 3 questions hote, introduce yourself, you project and all the annotations you used in detail

CDAC Pune 2022 (Bhakti)

Introduce yourself

Detail description about project

Group by

Delete duplicate values

Add column

Remove column

Auntheticate vs authorization

Spring bean

How you connected your database

What is model view

Add foreign key constraints

Which are constraints in database

Primary key vs unique key

What is foreign key

Application context

What is IOC

What loose coupling

**CDAC PUNE** 2022 (gargi nigade)

1. Tell about yourself.

2. Project in detail.

3. Your role in project.

4. What technology are you comfortable in ?

5. What is springboot ?

6. What is pom.xml?

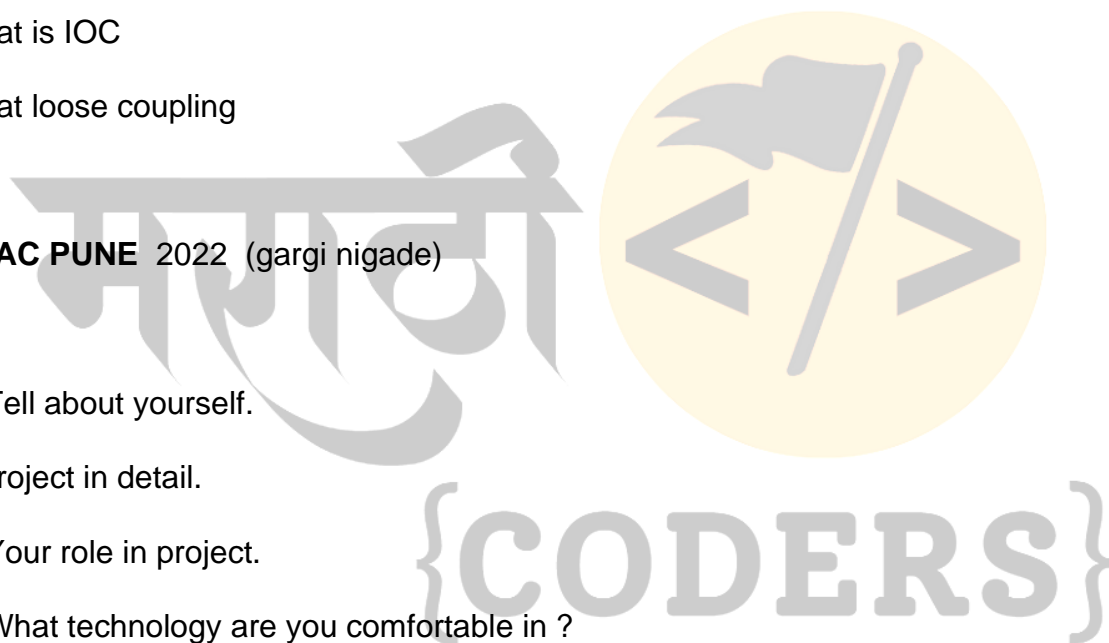
Explain its architecture.

7. What build is used in spring boot.

8. What is maven and its architecture .

9. What version of java have you used ?

10. Java 8 features



11. What are defender methods ?
12. What is AOP.
13. What is interceptor ?
14. What is postman ? Why have you used it ?
15. How do you run Spring boot Application .
16. What are ddl and dml commands.
17. Types of joins.
18. What is natural join ?
19. What is cursor ?
20. What is normalization ?

What is normalisation?

what are filters?

What is procedure?

Its advantages

Sql injections

And how to prevent

what is bootstrap,

truncate vs delete

grant command

**CDAC PUNE** (shubham varal)

What is normalisation?

,what are filters?



What is procedure?

Its advantages

Sql injections

And how to prevent

what is bootstrap,

truncate vs delete

grant command

Can program run without catch block

Student Name: Vaibhav Patil

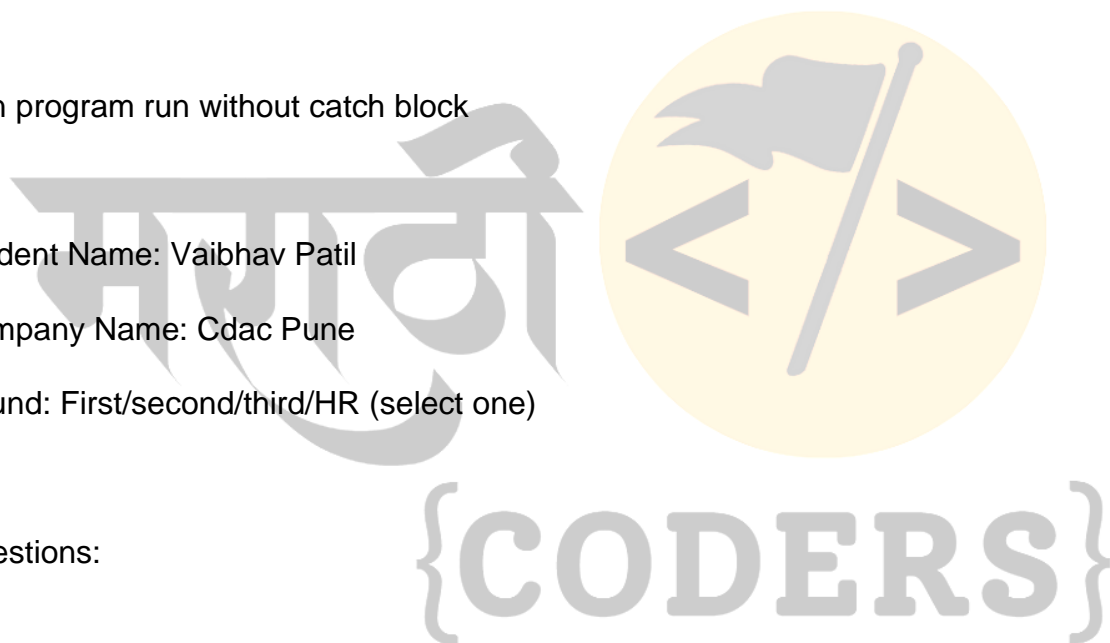
Company Name: Cdac Pune

Round: First/second/third/HR (select one)

Questions:

1. Explain Collection Hierarchey.
2. Explain Synchronization.
3. Hasmap vs Hashtable.
4. Explain Cursor, trigger, View.
5. In truncate Rollackback Possible or Not?.
6. TYpes of join.

Student Name: Kishor Janjal



Company Name: cdac Pune

Round: Direct Interview

Questions:

Q1 Introduce Yourself and explain about your Project

Q2 4-5 Question on Project Flow & Your Role In it

Q3 What is Spring Interceptor

Q4 What is CLI in Spring boot

Q5 What is Callback Function

Q6 What is Promise

Q7 Why did you choose Node Over Spring Boot

Q8 What are key Component Of Spring

Q9 What is Dependency Injection

Q10 what is application Context & Bean Factory

Q11 What is AutoWired

Q12 what is Command For SQL i. Create Index ii. Delete Column iii. Delete Data

Q13 Why did you choose Expressjs

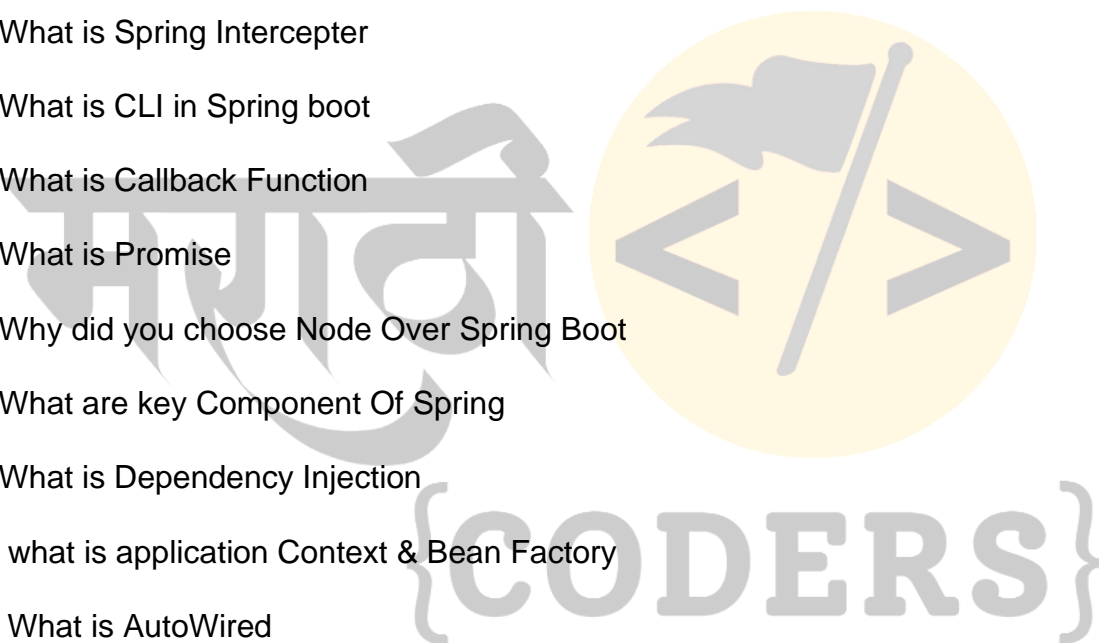
Q14 what are Bind Variable in MYSQL and is they available in Triggers Only

Q15 What is Component Scan and Context Annotation

Q16 What is Static Binding

Q17 Explain MVC

Q18 Explain Request Flow In MVC



Q19 Explain Controller flow in Frontend

## Interview Questions of Herald Logic

Introduce yourself

JAVA:

Constructor?types

Main pillars of java

Abstract class/inteface

Types of inheritance/polymorphism

Exception handling?

Arraylist vs vector

Hierarchy of collection

Multithreading (ways of creating thread, how?)

Final keyword

Write a program to reverse a string

To check string is anagram or not

DSA:

stack/queue

Searching algo (types,with complexities)

Write a syntax to find middle element linkedlist(same with less complexity)

Reverse Linkelist logic



DBMS:

What is joins?

Types of joins?

Normalisation?types?

J2EE:

Spring vs Springboot?

Any 10 annotation with use

Use of hibernate

Project:

Which technology?

Flow of project?

Your role?

Which design pattern?

Normalization level?

And MySQL queries

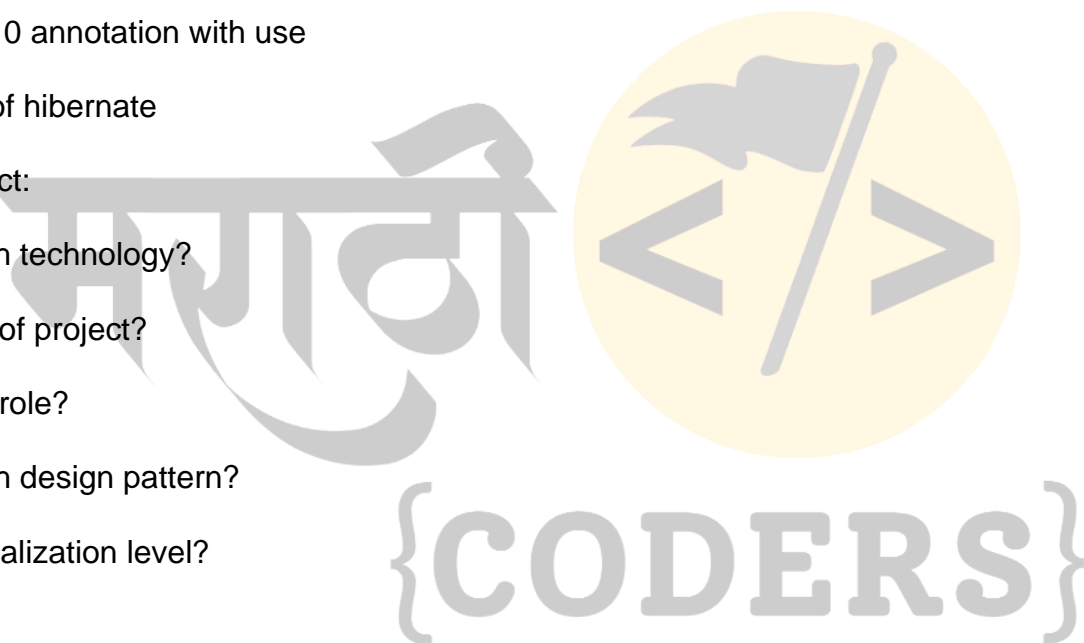
## **CDAC PUNE**

Intro with project n technology

Constructor

Static binding

Abstraction



## CDAC Pune March 2022 Interview Questions

Explain your dac project

Your role in Project

Project related few questions(related my role)

Software testing

Types of testing

What is functional testing

Do you know about

Manual testing and Software testing

Are you interested in testing profile

Do you know about software testing

Have you written test cases ??

### CDAC PUNE

Student Name: Alshifa Mansuri

Company Name: Cdac Noida

Round: First (Direct IV) (select one)

Questions:

- 1.)CDAC Noida Interview Questions :
- 2.)What is constructor and its types
- 3.)What is Overloading and overriding
- 4.)What is rest controller and rest api
- 5.)What is mapping and its types
- 6.)What is the flow of any request in Spring
- 7.)In case you have to upload a file in a form what mapping is used and what type of attribute is used and how it is stored in database
- 8.)How many tables are there in your project



- 9.)Till how many level of normalisation have you acived
- 10.)what is 3rd normal form
- 11.)what is @configuration annotation
- 12.)Do you have github profile and what is use of github
- 13.)what is use of docker
- 14.)What is maven used for
- 15.)Why is main method static in java
- 16.)what is interface
- 17.)what is abstraction
- 18.)How spring application runs

TIAA

mol dada marathi coders:

What is OOP

Explain pillars of Oops

Explain data hiding

Collection hierarchy

What is the implementation of list

What is difference between hashmap and hash table

What is the internal working of hash table and hash map

Difference between map and set

Features of java 8

What is stream API

Write code for stream API

What is functional Interface

What is new things in interface after java 8

What will happen when we write 2 default methods in functional interface

What is singleton class

What is exception

When to use throw throws

Too much scenario based questions on exception handling

What is linked list

When to use linked list when to use arraylist

What is searching sorting

Scenario based questions on searching and sorting

What is try with resource why to u...

[3:46 PM, 10/11/2022] Amol dada marathi coders: CDAC Pune March 2022 Interview Questions

Introduce Yourself  
Explain your dac project  
Your role in Project  
Project related few questions(related my role)  
What steps you took to design your database  
How to achieve foreign key in MongoDB  
Operator Overloading  
Spring MVC structure  
Function Overloading  
Imagine example of function overloading in your project and if any, explain  
Springboot Advantages over Spring MVC  
ReplicaSet in MongoDB  
Primary Secondary ReplicaSet  
Did You Use Covered Queries in your project  
Which Version Control System you used (Github)  
Github is Centralized or Decentralized Version Control System  
Their Advantages

TIAA - L1

- 1) briefly introduce yourself
- 2) which java version u studied
- 3) features of java 8
- 4) tell mi oops concept
- 5) describe encapsulation
- 6) describe abstraction
- 7) write code for palindrome number
- 8) given one array and ask to print prime number
- 9) given one array and ask to remove duplicate in array
- 10) what is exception
- 11) how to handle exception
- 12) can we write catch block without try
- 13) can we write try without catch block
- 15) difference between throw and throws
- 16) what is multithreading
- 17) after thread start which method is called
- 18) how to achieve multithreading in java
- 19) what is spring boot

- 20) advantage of rest api 😊
- 21) @service and @controller annotation
- 22) what is dependency injection
- 23) which mapping u used
- 24) get vs put
- 25) what is post mapping
- 26) linear vs nonlinear data structure
- 27) operation of stack
- 28) what is complexity
- 29) if two for loop is there then what is time complexity
- 30) how to achieve  $O(\log n)$  complexity
- 31) what is cursor
- 32) what is dbms
- 33) function vs procedure
- 34) normalization and its type
- 35) primary key, composite key, unique key
- 36) what is joins and its type
- 37) write a query for any one join
- 38) do u know stream api - i said no
- 39) what is marker interface
- 40) what is singleton class
- 41) what is multiple inheritance
- 42) which front end language.
- 43) java vs javascript
- 44) datatype in javascript
- 45) what is agile methodologies



{CODERS}

TIAA L2 round

- 1) ur cdac college name
- 2) how was ur day
- 3) then he asked which technology u like most-
- 4) then he asked wht is normalisation
- 5) if we use normalisation then searching time is increase or decrease
- 6) inner join vs full join
- 7) union vs intersect
- 8) opps concept
- 9) why we used interface give me practical example

- 10) do u know design pattern
- 11) what are datastructure
- 12) array vs arraylist
- 13) which is thread safe?

#### TIAA interview questions

1. give a brief introduction about yourself and the project. (Explained all modules in detail)
2. Questions Related Project (Your Role, DB connections, etc)
3. what is an Exception?
4. What are compile-time and runtime exception
5. ClassNotFoundException is runtime or compile time and why?
6. SQL query
7. Fibonnaci series program

#### TIAA interview

1. Introduce Yourself
2. How can u call rest api in javascript write a pseudo code -----for frontend
3. How do you create rest api and write pseudo code. ----- for backend
4. What is an api service call ?
5. 1 question for create api :- we will pass department id u need to return employee list which belongs to those department. Write pseudo code.
6. Can we create our own api?
7. chess board code

#### TIAA interview

- 1) Write function for to take amount and return the change that amount i.e. 27 amount you return 10-2 times 5-1 time 1-2 times
- 2) Write function using ajax to click on Like button to increase by it
- 3) Write the java code read file and count the words
- 4) What is Rest API
- 5) What is collection
- 6) What is dependency injection

Suraj Dakua

TIAA Technical Round 1 ( L1) :

1. Introduce yourself don't tell about your family here
2. Open notepad WAP to find duplicates in an array and also state the time complexity of your code how can you reduce Time Complexity. Optimize the code.
3. What all technologies used in your project ?
4. Questions on Spring Boot
  - How will you create bean in Spring ? What is the annotation used for creating bean ?
  - ORM model how it works w.r.t Spring
  - Explain @RestController
  - Why you've used Spring ?
5. Restful Web services
6. Database Questions :
  - Types of join
  - Explain Self Join where to use Self Join
  - Procedures in / out / inout
7. Ques on Javascript
  - What is Nan
  - Explain REPL in Javascript
  - Methods in DOM model
8. Angular :
  - Angular version
  - Hooks in Angular
  - Validation in Angular
10. Java Ques :
  - ArrayList vs LinkedList
  - Hashmap vs HashSet
    - Working also
  - Collections Hierarchy
  - Diff between Abstract class vs Interface give an example
  - default vs static in Interface
  - Types of Inheritance
  - How will you achieve concurrency in Java

Duration 1.05 Hr

Suraj Dakua

TIAA Managerial Round Final :

- Introduce yourself be calm and tell everything about yourself

- Journey of your CDAC
- Project
- Spring MVC vs Spring Boot
- Shown him my project flowchart DB design
- Programming Style used in your project
  - I said OOP he said which Pillars. I said SOLID Principles and explained them he was impressed.
- What UI technologies you know ?
- Questions on DB design
  - Indexes
  - Foreign Key
- What is SDLC explain ?
- Why is Agile dev better than Waterfall Model
- Why we need web server ? Tell me web servers you know
- What is microservice and monolithic service
- How can you achieve loose coupling ? Why loose coupling is needed ?
- What is SOA Service Oriented Architecture
- what is Authentication and Authorization ?
- How can you authenticate user without using DB ?
- What is cloud and server ? What is AWS ?
- I said pay as you go. He said please explain what you've said
- What is load balancing and ETL do you know about it ?
- I said GIT he asked me about CI / CD and DevOps Questions
  - my advice please don't tell about this if you don't have knowledge else you'll get rejected
- Managerial Questions :
  - Do you've time constraints ?
  - If I put you on entire new technology ? What will be your approach towards learning ?
  - what technologies you're comfortable with.
- Do you have any questions :
  - I said yes and asked
    1. What piece would you give to me ?
    2. What are on going projects in TIAA and if I join TIAA what will be my contribution ?
      - I asked this purposely to show my eagerness to join TIAA
    3. I asked feedback
      - He said see you soon Suraj Bye.

Duration 1.17 Hrs

Suraj Dakua

TIAA Technical Round 2 (L2) :

1. Introduce yourself tell me about history in academics what all you've done.  
\* WAP of Stack full code with Time Complexity and other ways of implementing Stack.
2. What was your project in B.E.
3. How many group member's where there in your BE project ?
4. What was your role ?
5. Challenges faced during your BE project ?
6. Spring Boot Questions :
  - What you mean by Rapid Application Development in Spring Boot ?
  - How to create a Spring Boot Application ?
  - Spring security encryption using AES and Bearer
  - Annotations in Spring
7. Explain methods of Restful Web services
8. How will you do packaging in Java ? What packaging in Java
9. Tell me about JAR and WAR
10. Server used in Spring
11. Core Java
  - Have you heard of Concurrency in Java
  - What is Thread Scheduler ?
  - Where is Thread Pool practically used ?
  - Diff between wait() and sleep()
  - What is notify ?
  - synchronized keyword and it's disadvantages.
  - What is JVM ? Tell me what JVM does for Java ?
  - Collections
    - Tell me situation where ArrayList is better than LinkedList
    - Which DS is used to implement ArrayList and LinkedList
    - which is better and why ?
    - HashMap vs ConcurrentHashMap
    - Tell me about Scaling on Server
      - What is upscaling and down scaling.

Duration 40 mins

TIAA-T1

- intro
- which technology you have use for project (like springboot, reactjs)
- which language you are comfortable (I said java)
- what is jvm, jre, jdk
- OOP pillars
- overloading vs overriding

- abstract class vs interface
- String, why immutable, string pool
- comparator vs comparable
- iterator vs list iterator
- arraylist vs linkedlist
- what is bucket (I was not sure if she was asking bucket sorting algo. or any other bucket concept, So I told her I know bucket concept in hashmap but I am not aware about bucket sorting. So she said, yeah go ahead tell me what you know about it ) Then I explain hashmap internal working with bucket
- what is hashtable
- diff soap and rest
- what is restfull api
- what is UI
- multithreading vs multiprocessing, process vs thread
- explain version control
- what is operating system, kernel working
- what is page fault
- what is deadlock, causes, avoidance
- what is rdbms
- delete vs truncate
- ask me two queries on like operator with % and \_
- two scenarios on join and select query(don't know if my answer was correct or not, she didn't say anything and move to the next question )
- stack implementation with linked list
- types of tree
- what is avl tree
- types of testing(unit, integration, system)
- what is white box, black box, grey box

#### TIAA-M1

- intro
- brief about project, my roll, total team work how we manage during project
- number of tables in project, how we join two tables, he gave me one situation and ask me to write join query
- he gave me 2 scenarios on project only, if user do this then what will happen, tell me your approach.
- While explaining one of the feature he said, why you guys did like this, we have even simpler solution for that, then he explain me in brief.  
(manager was nice person, but be prepare with project)
- ask me to choose any language and database (I said java and mysql)



-OOP concept, ask one basic situation based question on inheritance, which is base class and which is derived class  
-ddl, dml  
-then personal info, like family background, where do you stay  
-do you have any questions, I ask if any further rounds are there, so he told, TIAA usually take 3 round(T1,T2,M1), but this time we skip T2 and maybe we will plan one more HR, we will inform you. Then I ask for interview feedback, he said let's see, we will see you in next round. I will send my feedback to Hr

Jio

Jio interview questions:

Student Name: kartik paliwal

Company Name: jio

Round: second

Questions:

1. Introduce yourself
2. Cdac journey
3. 2 years gap (why this gap between education)
4. Project
5. Explain Controller, Dao layers, service layer, and mysql in your project
6. explain OOPs concept
7. write query for left outer joint
8. Programm to find substring from string array
9. Explain multi threading
10. What is apache tomcat
11. What do you except from jio

Jio

Jio interview questions

1. Introduce yourself
2. What about project
3. Explain OOPs concept with real life example
4. Why we not use multiple inheritance in java

5. What is data structure and its components
6. Stack Algorithm
7. Binary tree and explain with example
8. Explain is sorting and there types
9. Sorting time complexity
10. Where Sorting use in real life

Honeywell

Date- 13/10/22

Introduction

Memory structure

Heap vs stack

Data Structure

Circular linked

Double linked list

Diff of CL and DLL

How we create object in c

Testing

Type of testing

Any experience ?

BE project

Tell about family

Why your marks is poor (reason)

Ready to relocate

Which you City prefer



{CODERS}

Fortinet ( Bangalore)

2nd round -

Questions

Write code on parentheses will get string as parentheses will have closing parentheses but not opening

What is deadlock

Difference between mutex and semaphore

Brief introduction about your project

What is call back function

Write code on how many times occurrence of a number in array

What is USB

What is drive in printer

What is memory management unit techniques

Difference between primary memory and secondary

What is thrashing

If class is abstract then can we create instance

How USB and printers and pen drives are connected with machine

What is operating system

1st round -

Questions

Write code to find duplicate number in array

Write a code for duplicate character in string

What is garbage collector

What is process

Difference between programme and process

What is dfs

What is bfs

What are features of java

Difference between abstraction and encapsulation

What are linear data structures

What is encapsulation

What is abstraction

Fortinet technology interview

Round 1

1) Find the sum of 3 max number from array

2) puzzle

There is one man having 3000 bananas, he has 1 camel 🐫

\* Camel can carry 1000 banana max at a time

\* He eats 1 banana for 1 km

Man has to travel 1000km

How many maximum banana will be remaining after the journey

Round 2

## 1) Robbers problem

given an 1d array

Which consists of money in that house 🏠

Index is the position of house.

Robber has to rob max amount, but he cannot rob two adjacent house .

Find max Robbing amount.

(I could not solve this code but I had explained what I was thinking to solve

Interviewer said that u r going in right direction

So my plan was right but I could not do coding part)

## 2)

There is array having 0 and 1 only

We have to count no. Of 1 in that array

It is sorted array

Need optimized solutions

$O(n)$  will be very easy solution

Try for  $O(\log n)$

Veritas

Rate yourself in c, c++, OS and in DS.

What is structure and class & its diff?

What are the storage classes?

What is member variable, global variable, local variable and scope or lifetime?

if we want to available a variable to two methods where we declared

How u can multiply any no. by 2 without addition and multiplication?

Static keyword in c or c++. if we declare variable static what happens.(He will be asked many scenario)

Where is memory assigned to global and local static variable w.r.t C++ and C?

How u perform communication in between Two process?

What is thred, What can they do, What happens, Why we use?

What is fork();

-----  
`#include <stdio.h>`

`#include <sys/types.h>`

`#include <unistd.h>`

```
int main()
{

    // make two process which run same
    // program after this instruction
    fork();

    printf("Hello world!\n");
    return 0;
}
```

-----  
What will be the output of given code?

diff between static and final.

can Objects have memory.

Can u write a program related to array traversal with using pointer(in c);

What is page fault?

What is in RAM? What is use and working?

---

NielsenIQ

NielsenIQ (Platform : Codility CodeLive)

Had to write code with one of the company person monitoring it.

1. 2 codes

Same as Coding test.

2. Explain the logic once you are done writing the code.

3. Explain one of the test case and why that output.

4. String reversal without using inbuilt functions.

5. Give you name as input.

6. Is your name a palindrome.

Write the code for the same.

7.OOPs pillars

8. Difference in abstract class vs interface.

9. How can inheritance be implemented.
  10. Can interface have concrete methods ?
- 

### NeilsenIQ Interview Questions(Today)

#### OS & CN

- 1) What is OS and different types of OS?
- 2) What is process and thread
- 3) What is multithreading
- 4) What is TCP & UDP?
- 5) What is DNS?

#### CORE JAVA

- 6) What is Constructor?
- 7) What is super class
- 8) Difference between Overloading and Overriding
- 9) What is memory leak?
- 10) What is Encapsulation?

#### LIVE CODING

- 11) find duplicate number in an array by passing a array to function

- 13) What is Schema in DBMS

- 14) What is relation

#### Live Coding

- 15) SQL query based on joining two tables Employee(Attributes->id, name, gender, age, deptid) and Department(deptid, name) where age is between 25 and 40 and gender should not be null

#### Approach

- 16) How to would you traverse print linkedlist data in reverse order

Followed by 3 HR questions

---

NeilSonIQ: (There was only one round..No hr)(Mostly Based On Data Structure)

Introduce Yourself in short?

Explain Your Project in short?

Why Civil to It?

Why your marks in decreasing from 10th onwards?(10-91.40, 12-80.31, deg-73.30)

Mostly discussing on Stack, Queue, Prio Queue, deque, Input/output Restr queue

Write a code to char and count of char from my name?(e.g. Sagar --> s-1 a-2 g-1 r-1)

Write a query to add column in existing table?

write a query delete dups from a table where there is no primary key?

Foreign key vs Primary key

---

Company name - NielsenIQ

First round

Introduce yourself

Features of oop in java

He asked me to code following

He asked to me to write code which was given in online coding exam

1) reverse string

2) Fibonacci using recursion

3) add node at the end of linked list

4) find duplicate in array

SQL

What are joins

Write join syntax

What is self join

Do you have any questions for me

Second round

Introduce yourself

Tell me about your project

Annotations used in your project

How did you handle exception in your project ,

What is autowired annotation

What is spring container

Tell me Different ways in which we can achieve ioc?

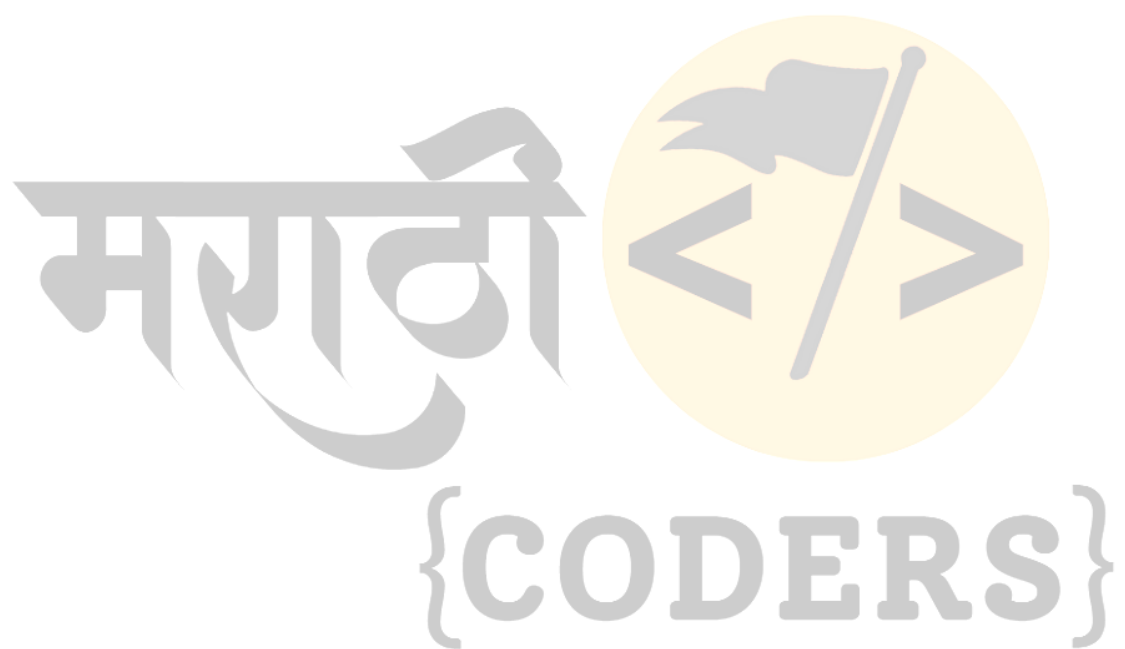
Difference between getmapping and postmapping

What is mapping in hibernate.explain their types.explain mapping through your project  
How did you do authentication for user and admin  
Which database module you used in your project ( spring data jpa).he was asking how did u use it  
He said if I wanted to use my own query how will u do that  
What is finder method in  
He said instead of using jpa repository i/f why didnt u use crud repository  
What is AOP. Have u used it in your project  
Then he went to java  
Rate yourself in java  
What is oop in java ,  
How to achieve abstraction  
Difference between interface and abstract class  
When to use interface and when to go for abstract class  
Explain exception hierarchy  
Give examples of checked and unchecked exception  
How to create custom exception  
Why is string immutable  
Difference between string and string buffer  
Difference between stringbuffer and string builder  
Do u know about collection framework,have. U used it  
Difference between linkedlist and arraylist  
Internally working of hashmap  
What is synchronisation  
He gave array of duplicate elements  
And told to get new array having unique elements  
SQL  
Rate yourself in MySQL  
Told to write Syntax for create ,alter,delete ,drop,  
What are joins  
Write every syntax of join  
DSA  
What are Different sorting algorithm  
Explain selection sort  
Basics about linked list ,tree , stack , queue  
What is git , different command of git  
Do U have any questions for me

---

---





# Nesosoft Company: Technical round 1 Questions

DATE 11/11/22 PAGE 1

- Q1. What is primary key?
- Q2. What is database?
- Q3. What is difference between list and Map?
- Q4. Explain arraylist in detail.
- Q5. Explain Map in detail.
- Q6. Overriding vs overloading
- Q7. Drop vs truncate
- Q8. Use of delete?
- Q9. ~~What~~ Tell me about collection.
- Q10. 

```
int x=10;
int y=x++;
```

 what is value of x and y?
- Q11. x extends y, z? what is x, y & z here class or interface? is it allowed?
- Q12. If 

```
Parent class obj = new childClass();
```

 what is the object able to access? parent class methods or child class methods?
- Q13. What is concurrent modification exception?
- Q14. If i extend runnable interface, and didn't write/override run method, what will happen? ~~Will~~ exception occur?
- Q15. What is exception handling?
- Q16. Stack vs Queue.
- Q17. Real life example of stack and queue.
- Q18. ~~Tell me about thread schedulers?~~ thread scheduling?
- Q19. Thread lifecycle?
- Q20. What is multithreading?
- Q21. What does `yield()`, `wait()`, `sleep()`, `join()` method do?

Q.22. X implements y, z. What is X, y & z here?

Q.23. If M is a class which implements interface y and z, where int x = 10 in y interface and int ~~x~~ = 20 in z interface, then what will be the value of x in class M?

Q.24. can we write 'return' in try block?

Q.25. can we write try block with catch block?

Q.26. can we write try and finally block without catch?

Q.27. throw vs throws

Q.28. Tell me about OOPS? Explain all encapsulation, polymorphism,

Q.29. X extends Y? what is X and Y?

Q.30. What is abstract <sup>class</sup> and interface? Difference between them.

Q.31. Which classes implement list interface?

Q.32. ArrayList<Integer> arraylist = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};  
for (int i=0; i<=arraylist.size(); i++)

```
{
    arraylist.remove(i);
}
```

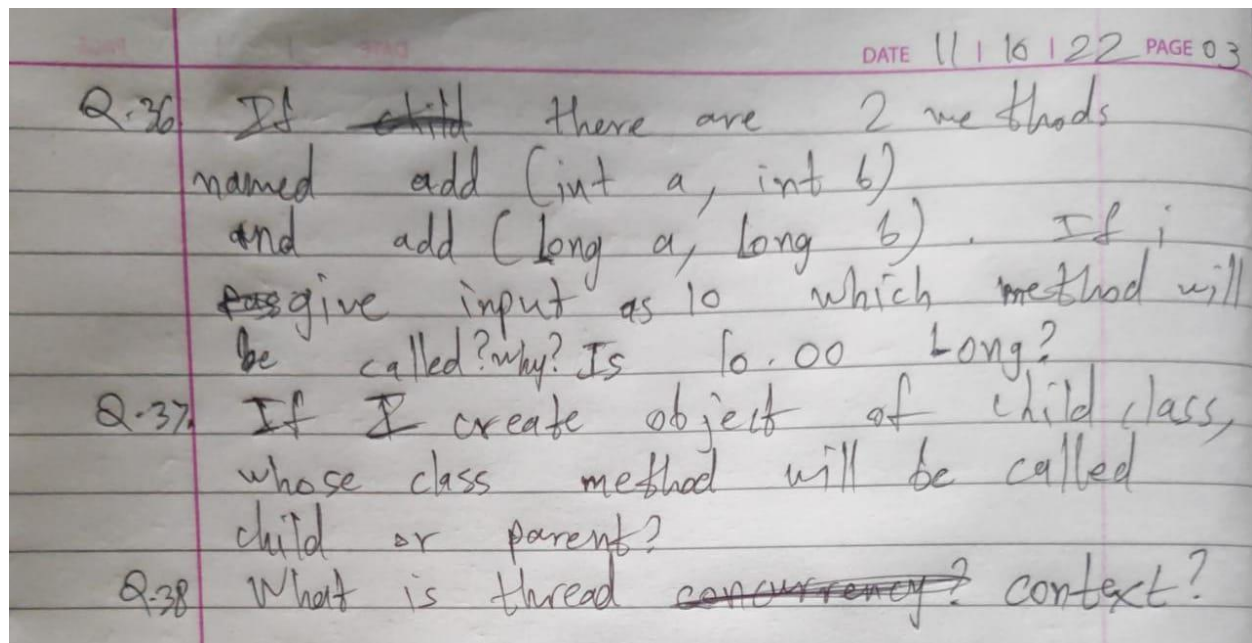
```
system.out.println(arraylist);
```

What will be the output of ~~for~~ above code? Look carefully.

Q.33. Tell me about 'super' and 'this' keyword.

Q.34. What is synchronization?

Q.35. When you ~~at~~ create object of child class will constructor of parent class be called?



Neosoft

1. Introduce Yourself
2. How many technology languages do you know.
- 3) Explain oops.
- 4) what is the difference between overloading and overriding and how to achieve it.
- 5/ what is multithreading.
6. How to create thread. What will be the sequence of thread execution
- 7.
7. what is Synchronization.
8. yield, Join and wait methods.
9. Exception handling, why we need try with finally is possible {1} Catch with finally is possible,
10. Explain String, String Builder and String Buffer
11. What is string constant pool.



12. Constructor chaining Questions.

13. we have two methods with same name, first method takes Integer and second takes Long of wrapper class, if we pass null to methods what will happen.

14. X extends Y, Z

15. X extends Y, implements Z

In these cases what will be X, Y, Z

Neosoft (Taken by Sameer Sir)

1. No intro, he introduced himself.

2. Core java: OOps concepts: Polymorphism, class, objects

3. Is java fully object oriented? What are primitive and non-primitive datatypes? Differences and uses.

4. How to identify which method (of parent or child class) is being called during overriding?

5. Interface and class

6. Singleton class

7. Any questions for me?

TIA

1. Intro, Explain work flow of ur project, have you used any constraint for donor age in back end (I told we did that in react for drop down, he said good)

2. Project related: Your side in it, how did you connect front end to back end, how did you deploy on AWS cloud? Database used? B.Tech project explanation.

3. React.js virtual dom benefits

4. OOPS concepts: Explain overriding, overloading. How to identify both?

5. ArrayList and Array difference

6. Collection interface: Set, List, Map, HashMap

7. How to remove duplicates from ArrayList? code in front of me

8. SQL based: Query to find employee with maximum salary, also to find second lowest salary, indexes

9. Exceptions: throw vs throws. Use of exceptions. try catch blocks

10. Modules learnt: What is web based java? What is web programming, software development methodologies?

11. Any questions for me?

Neosoft(Taken by Sameer)

- 1.No intro, he introduced himself.
- 2.Core java: OOps concepts: Polymorphism, class , objects
- 3.Is java fully object oriented?What are primitive and non primitive datatypes? Differences and uses.
- 4.How to identify which method(of parent or child class) is being called during overriding?
- 5.Interface and class
- 6.Singleton class
- 7.Any questions for me?

Neosoft

(10LPA/Mumbai,Pune/2 year Bond/Java web+Database) :  
L1 interview by Kunal:

1. Self intro. You know Java?
2. What is database?
3. What is difference between list and Set?
4. Explain arraylist in detail.
5. Explain map in detail.
6. Overriding vs Overloading.
7. Drop vs Truncate.
8. Use of delete?
9. Tell me about collection? Why do we use them?
10. 

```
int x = 10;
    int y = x++;
```

  
What is value of x and y?
11. x extends y,z. Here what is x,y and z here? class or interface? Is it allowed?
12. If Parent class obj = new Childclass(); what is the object able to access?Parent class methods or child class methods?
13. What is concurrent modification exception?
14. If i extend runnable interface,and didnt override run() method,What will happen? Will any exception occur?
15. What is exception handling?
16. Stack vs Queue?

17. Real life example of stack and queue.
  18. Tell me about thread scheduling.
  19. Thread lifecycle
  20. What is multithreading?
  21. What does yield(),wait(),sleep(),join() method do?
  22. x implements y,z. What is x,y and z here?
  23. If M is a class which implements interface y and z,where int x=10 in y interface and int x=20 in z interface,then what will be the value of x in class M?
  24. Can we write return in try block?
  25. Can we write try block with catch block?
  26. Can we write try and finally block without catch?
  27. throws vs throw
  28. Tell me about OOPS.Explain all pillars.Encapsulation,polymorphism.
  29. X extends y,which is class and interface?
  30. What is abstract class and interface? Difference between them.
  31. Which classes implement list interface?
  32. 

```
ArrayList<Integer> arraylist = {1,2,3,4,5,6,7,8,9,10};
for(int i = 0;i<=arraylist.size();i++)
{
    arraylist.remove(i);
}
System.out.println(arraylist);
```
- What will be the output of above code? Look carefully.
33. Tell me about super and this keyword.
  34. What is synchronization?
  35. When you create object of child class will constructor of parent class be called?
  36. Suppose there are 2 methods named add(int a, int b) and add(long a,long b). If i give input as 10 then which method will be called?why?
  37. Is 10.00 long?
  38. If i create object of child class,whose class method will be called child or parent?
  39. What is thread context?
  40. What is early binding and late binding?

Verifone

Oops concept

Why is java platform independent

Can we create top level class private

Encapsulation aur code uske upar

Diff btw abstract class and interface

Can interface extends multiple interfaces and class

Diamond problem

Restrictions of method overriding

Why dont we use static private final

Final v finally v finalize

HashCode() and equals() method explain

Transient

Thread life cycle

Fibonacci series code

Hr:

Break and continue statement

Strength and weakness

1.introduce yourself

-which object you created in autocad

2.why you choose IT

3.what challenges you faced in team management(college)

4.waterfall and agile

5.html form on VS code

6.lamda expression program of square

7.why we started to use oops?

8.program on string array sorting( without collection) no. Of characters ,even and odd

9.javascript unary functions

10. Javascript NAN

11.arraylist and vector

12.diff between primitive and ref type

13.thread pool

14.multi threaded example

15.Inheritance refernce object in child example given is right or wrong

16.in functional interface what is Consumer

17. What is alert in javascript

18.functions in javascript



{CODERS}



19. post man (what is header) explain why we use post man
20. javascript how to display line by line ....

Managerial round:-

1. Http and https
2. Where you used http
3. Program on string splitting
4. Program on javascript to print random numbers
5. testing types of testing
6. diff between junit and integration testing
7. problem on selenium testing

### Flextrade

Interview Round 1:

- 1) Tell me about yourself
- 2) Do you know C++?
- 3) Do you know Linux?
- 4) Tell me what is OOPS?
- 5) Do you know SQL?
- 6) Write an example for insert query in SQL
- 7) What is the difference between Delete, Drop and Truncate?
- 8) What is a stored procedure?
- 9) Tell me about inner join and outer join?
- 10) Complete the series:
  - i) 5, 7, 11, 13, ?, ?
  - ii) -1, 2, 7, 14, ?, ?
- 11) Do you know any Networking commands in Linux?
- 12) What does ping do?
- 13) What are telnet and ssh commands?
- 14) Command in Linux to check ip
- 15) Tell me the basic commands of Linux you know
- 16) Where is awk used? write a command to print the first three fields in the form of columns from a csv file
- 17) What is the use of sed?
- 18) What is the use of grep?
- 19) How do I find a file whose location I don't know but I have a string that file contains using grep?

- 20) What is the command to check RAM usage?
- 21) How to create a file in Linux (command)?
- 22) Do you know Java?
- 23) Tell me the difference between C++ and Java or why Java is better than C++?

Laminar Aviation Infotech

Laminar Aviation Infotech

1.Exam was on html,css and js.  
one section was for coding and other three sections consisted of html,css,js questions  
theory+ snippets

Interview question.

First round..

What is inheritance?

What is html?

What is difference between class and id in css?

Tell me about ur project. Explain it in detail.

What is api?

Why did u use Reactjs?

What is React?

Features of React.

What is document.getElementById?

Second round

Tell me about yourself.

Why IT sector.

Family background.

What will you choose MNC or Small service based firm?

And some location, company project related questions.

Laminaar L1

- 1) briefly explain ur project
- 2) why u used react in front end
- 3) features of react
- 4) what is cls,cts,clr
- 5) what is delegates
- 6) why u used mysql for database
- 7) tell me react file structure explain each file.
- 8) wht is usestate and useeffect
- 10) wht is constructor chaining in c#

laminaar L2 ( technical+hr)

- 1) some logic based questions
- 2) how u create login, registration form
- 3) how validation is done in ur project
- 4) primary key , unique key
- 5) why should we hire u
- 6) family background
- 7) why 2 year gap between engineering and cdac
- 8) are u ready to relocate

laminaar aviation Technical round

- 1.why CDAC?
- 2.what is full stack ?
- 3.suppose we have u\_Id and Uname userid is auto generated column then do we need to add unique key constrain on username?
- 4.how data is send from front-end (JSON or XML)?
- 5.if we add reserved characters in json value will it accept?
- 6.how can I get single value from spring boot like(user/{id})
- 7.If i use that api in web browser will i get data?  
if yes then where do you have used security?

round-2

Managerial/HR

- 1.Introduce ur self (where are u from and family background)
- 2.Are you logical person ? when you applied logic recently?

3. what is software? give me the example which u have used?
4. What do you know about our company?
5. Are ready to relocate ?

Laminar Aviation Interview que:-  
First round

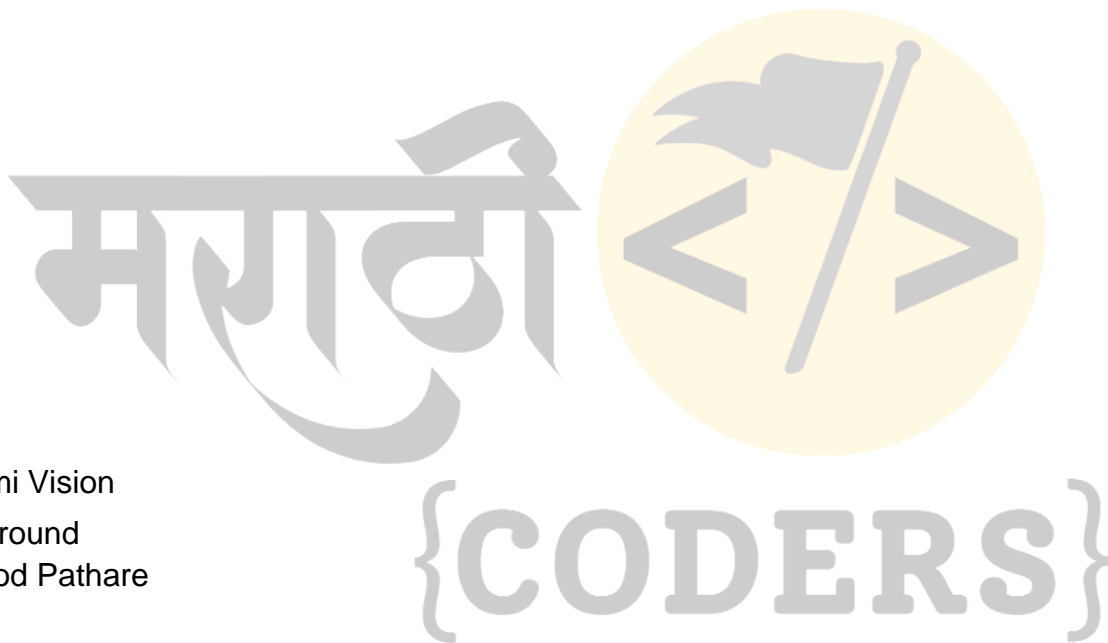
- 1) introduce ur self?
- 2) suppose im a new person in IT and u have to explain me ur project? explain in detail?
- 3) explain all the service of ur project?
- 4) why u use react only?
- 6) what are packages and files react have?
- 6) why only class component instead of function component?
- 7) difference between render and JSX?
- 8) difference between react state and props?
- 9) why u use componentDidMount?
- 10) why u don't use any other lib instead of axios?
- 10) which port no is use to connect it?
- 11) what is create-app mean exactly?
- 12) why only springboot is use?
- 13) annotations for hibernate?
- 14) main class in spring?
- 15) tell in brief about opps and real life example?
- 16) diff between java and .net?
- 17) in .net what is function overloading?
- 18) static keyword and static method in .net?
- 19) difference between final, finalized, finally?
- 20) write query on third highest salary?
- 21) which technology do u like most and why?
- 22) what if we put on .net section

Laminar Aviation Interview  
Second round

- 1) what is ur favorite technology?
- 2) what unique knowledge u have in react?
- 3) component of .net?

- 4) cls nd cts diifeance?
- 5) why msil is used?
- 6) what is delegate?
- 7) what is coreFx?
- 8) why should we hire u?
- 9) did u ok to compromise with ur creativity?

after that sir speak in marathi with..



Kami Vision

1st round

Vinod Pathare

- 1) tell me about yourself
- 2) Tell me about your project
- 3) List down the api's you have used in your project
- 4) Tell about HTTP Methods
- 5) Difference Between post vs put
- 6) What is dependency injection
- 7) Autowired Annotation
- 8) How do you have connected database in project
- 9) tell about @RequestMapping and @RestController
- 10) tell about Singleton class
- 11) Open eclipse and Write Singelton class
- 12) WAP to find the 2nd smallest element from array...dont use arrays.sort()
- 13) what is time compelxity of Selection Sort

- 14) You are having 2 linked list of different length at what point they will intersect and form Y shape
- 15) without using head node 1 pointer is given and that node is to be deleted(ptr node) in singly linked list how will you do?
- 16) write a query to find 2nd max salary from table
- 17) 3L 5L puzzle
- 18) do you have any question for me?

Q1. Explain your Cdac project ?

Q2. Explain your role in your project(how much api and functionality you have written)?

Q. which data Structure you have implemented in your project?// my ans was list  
// then he asked me about linkedlist and how can we create it.

Q. how many days of experience of java do you have?

\*\*\*\*Q. do you know working of hashmap?

Q. equals and hashCode contract?

Q. working of hashset?

Q. program Input: "i am saurabh"  
output: "saurabh am i"

// // i made a mistake that there was white space before "saurabh". tried using trim method even //substring and even stringbuilder it didnt work bu lastly somehow it work but output

Q. do you know how to create custom ArrayList?//my ans was i dont know but i can create  
//linkedlist.

Q. explain immutability?

//i use why string are immutable as reference and gave him ans.

Q. explain Enum? custom datatypes in enum?

\*\*\*\*\*Q. does enum have constructor? explain how to write custom methods in enum?  
// i wasnt able to ans custom method ans.

Q. Explain serializable?(then goes deep)

Q. where we use serializable interface?specifically in your project?

\*\*\*\*Q. Explain MultiThreading( did you implement it)?//he kept asking me about how to create threads and diff ways .// he wanted to know more about that.

//my ans was no i did not implement it in our project. I explained to him about session object creation by session factory for two diff clint but he insisted upon multi Threading, then he asked me about the Thread executor framework?// my ans was i don't know.

Q.tell me any Url that you have written?

// ans: "/doctor/bookAppointment/4"

\*\*\*\*Q. http methods?different http methods?

// ans i don't know

Q. rest protocol?

diff rest method?

Q. custom exception? how to create it ? did you written in your project?

// my ans was yes i have handled it globally.explain him about diff annotation that used in global exception handling.

Q. for creation of id which annotation is used?

Q. he asked me about one or more annotations which i don't remember.

Q. Explain the primary key?

Q. explain the difference between abstract class and interface.

Q. do interfaces have concrete methods?

Q. Do interfaces allow multiple inheritance?

Q. static initializer block?

Q. if i needed to sort Arraylist of employee then how can i do that?

// my ans was comparable and comparator interface.

// how can we implement it.

Q. How can I implement a comparator ? different ways// ans. by implementing interface, Anonymous class, or by lambda function.

\*\*\*\*\*Q. Suppose there are 3 tables

User(userid,userName),doctor(doctorid,doctorname),appointment(userid,doctorid) i.e. pivot table showing many to many relationship.  
expected output: patient name with doctor name.

Kami Vision

Interview question:

1. Introduce yourself
2. Project related question
3. Which technology you are good at
4. Regarding collection framework in java(hashmap and hashtable)
5. How to access both key and value of hashmap
6. Write a code for above
7. Write a program to get second highest from array without sorting the array
8. Linux related question
9. Linux command to get process id
10. Linux command to get disk space
11. difference between df and du command
12. command to list out all running process
13. What is normalization in DBMS
14. Some basic question on azure because of my certification
15. Then suppose we have database on any cloud the what command is used on terminal to connect to that database
16. Scenario based questions:  
Suppose all the words from newspaper are stored in a file and you have to find the string which is occurring maximum number of times, how would you do it

There was no hr round after this

Only technical round



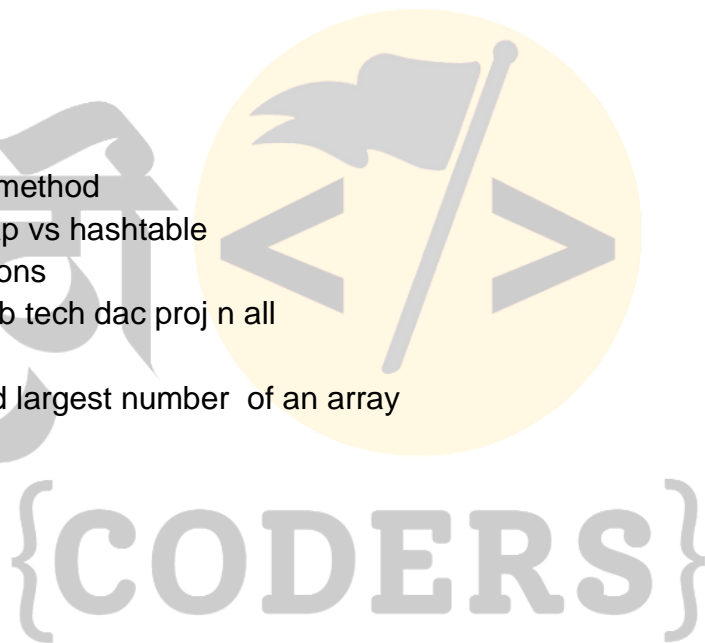
Integrate  
(Vishal Patil)

- 1) Give brief description about, what modules did you learnt during cdac course
  - 2) Tell me about your project
  - 3) Authentication used in your project
  - 4) Tell me the flow of Authentication
  - 5) In database column I have 100 records, marked with sequence which is pk, if I remove last 5 entries from it, and added one more entry what will be its pk
  - 6) I gave ans as 101, so he asked how can you avoid it, so it can start with 96?
  - 7) Assume a scenario where you have to save a user to database, How would you approach to above scenario means tell me flow from frontend to backend
  - 8) What is .net
  - 9) Can you decode jwt token
  - 10) JWT consist of? - (header, payload, verify signature)
  - 11) From VishalPatil String find out duplicate chars kadhun dakhav
  - 12) Later he changed scenario find out the repeating frequency of these chars also
  - 13) Also asked about pk and fk
- I got disconnected in the last while writing code in the last code was complete almost, then reconnected back and then he said ok our hr team will get back to you

Introduce yourself  
Explain your project  
How did u store ur password  
Architecture that spring boot follows  
What is aop  
Interface and abstract class diff  
And when to use which  
What is polymorphism  
What is method overload and method overriding  
What data structures u have use  
DFS function for graph  
Code

About java version 11  
Collection framework stream 3 method  
About filter map reduce Hashmap vs hashtable  
Asked about Hackerrank questions  
Introduction including full detail b tech dac proj n all  
Technical strength also  
Write java prog to return second largest number of an array  
About java version  
Abstract classes  
Composition vs inheritance  
Overloading vs riding  
Interface  
Try with resource  
What to do if want that no one can override a method  
Pass by value n pass by ref  
Concurrent hashmap  
What kind of design pattern u have used in your proj  
Flow of a request n resp in spring

company:-Integrate  
First Round  
1)Intro  
2)Project Explain



- 3)Annotation used in Project
- 4)What is Autowired
- 5)which Database Used
- 6)Explain Database Structure and how normalazation implemented in it.
- 7)write controller and repository for postMapping
- 8)write controller and repository for GetMapping
- 9)write controller and repository for GetMapping by Id
- 10)What is pathvariable
- 11)what is hooks
- 12)explain useEffect
- 13)what is Axios
- 14)how to connect front end to backend
- 15)what is reponse Header and request Header
- 16)How Many Ways you send data from postman(Json,Html)
- 17)Do you no about Reponse Contain type
- 18)Reverse String Code
- 19)Any Que

#### Second Round

- 1)Intro
- 2)Explain Project
- 3)Write Rest Api
- 4)Count And Duplicate Char from String
- 5)Reverse String Using C#
- 6)Garbage Collection in C#
- 7)Which Datatype Used to Store 100 Digit Number
- 8)Write Code for Addition of two 100 digit number
- 9)polymorphism
- 10)method overloading with real Example
- 11)Inheritance with real Example
- 12)Static method and Static Variable
- 13)Do u know About .net core
- 14)Diff. Between .net core and .net Framework
- 15)Any Que

#### Third Round

- 1)Intro
- 2)Project explain

- 3) Explain Database of your Project
- 4) are U ready to relocate
- 5) are you comfortable with .net and react
- 6) they give me information about company
- 7) Any Que

Fourth Round(HR-Round)

- 1) intro
- 2) if you have any query then ask

End of rounds



Knight Fintech

Interview questions

---

Final project in detail

How session management is done

What is JWT

How exceptional handling is done in backend

In-depth project questions

- OOPS concepts

With programming example

- Collection

- Array and arraylist

- Exceptional handling

- Interface and abstract class

- What is static class and its use

Database:-

- Unique key

- Composite key

- Stored procedure

- Types of join

- Difference between inner join and outer join

- mostly Scenario based questions on above topics

And interviewer was preferring short ans



{CODERS}

Introduce Yourself?

Session management and cookie management?

Project explanation.

What is http headers?

Difference between get and put method and how access it?

How authentication done in your project?

How password encryption done in your project?

How connect front end and backend?

How user add new data to database, which layer you used for that?

What is code in your service layer?

What is Entity?

SQL query for find the count of vehicle on the basis of fuel ?

what is aggregate function?

What is view?

What is encapsulation?

Poymorphism?Types?

Overloading and overriding?

Interface?

One snippet and asked output

One puzzle: How to calculate the fuel consumption of new delhi?

Company name- KFintech

Oops concept in detail

Inheritance with types + coding

Polymorphism

Types in polymorphism and their difference

Encapsulation

Abstract keyword

Abstraction

Interface

Difference between them

Static keyword

Difference between == and ===

Exception handling

Try catch

Conditional based questions

Array

ArrayList

constructor, types, syntax



{CODERS}

Some coding on constructor

Data abstraction

Types of exception handling with example

How many checked exception are there

Array related conditional based question with small code

What is package

Types of packages

what is DDL and commands

Normalization

SQL queries

Joins, types

Extension method

How to convert string into int?

Project

Codes

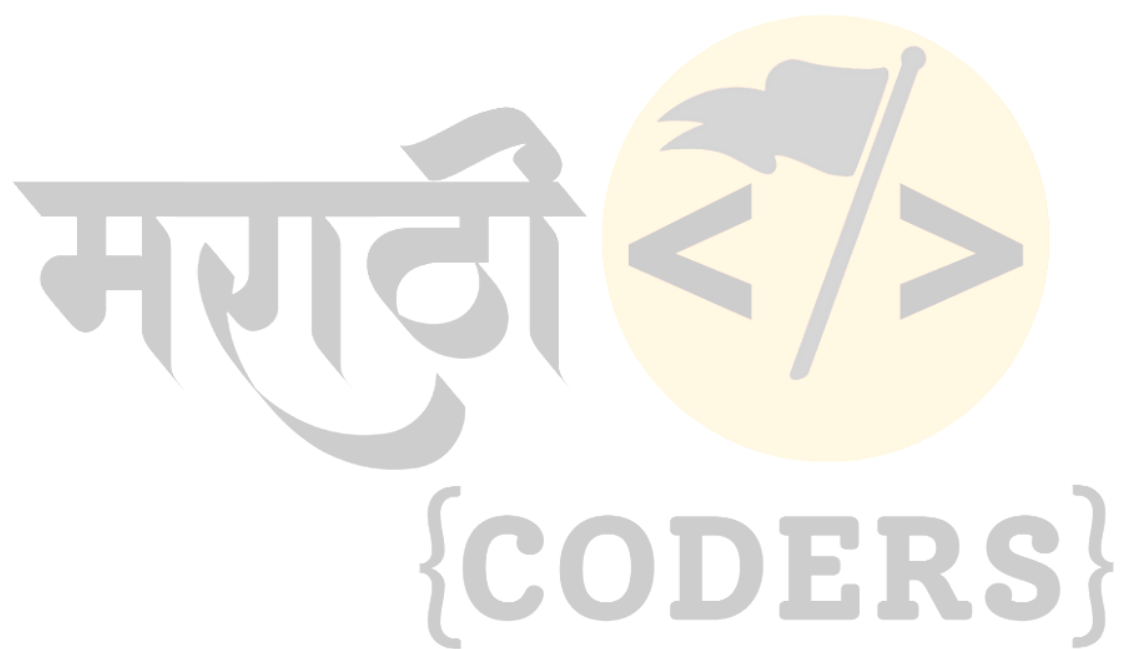
1. All types of inheritance code
2. Fibonacci series using recursion
3. Swapping without 3rd variable
4. Print random number
5. Prime number

Knight fintech Bangalore Region

1. Situation based question
2. Project flow
3. MySQL ddl dml command
4. Question on view
5. Session Management
6. Reader & Adapter Class
7. inheritance
8. Overloading / Overriding
9. What is http, stateless
10. RestApi
11. Tokenization (JWT)



{CODERS}





## KnightFinTech

### \* .NET GS

- i) What is life cycle of MVC? Explain Application life cycle?
- ii) What is routing and their types?
- iii) What are the filters available in MVC?
- iv) What is ViewBag?
- v) What is diff between ViewBag & ViewData?
- vi) What is TempData?
- vii) Explain MVC architecture?
- viii) What is Rest?
- ix) Diff. between Rest & SOAP?
- x) Which server used in MVC?
- xi) What are diff. layers?

### \* C#

- i) What is Delegate?
- ii) What is syntax to write Delegate?
- iii) What are the access specifier in C#?
- iv) Diff. between internal, protected & private modifiers.
- v) What are the types of constructor available in C#.

### \* OOPS :-

- i) Diff. between Abstract class & interface.
- ii) Explain overloading & overriding with example.
- iii) What is encapsulation?
- iv) Is this () keyword used in Static method?
- v) Where the memory allocated for static class/method & singleton class/method?
- vi) Diff. bet<sup>n</sup> static class & singleton class.

\*

DS :-

- i) What is LinkedList?
- ii) Diff. bet<sup>n</sup> arraylist & LinkedList.
- iii) How many pointers are in stack & queue?
- iv) What is binary tree & their types?
- v) Application of stack, queue, binary tree.
- vi) What is algorithm.

\*

General qs :-

- i) Introduce yourself.
- ii) Why not mechanical?
- iii) Explain project and what is your roll in project.
- iv) And few more qs on project about annotation & flow.

Kfintech (8 LPA/Mumbai,Hyderabad,Bhubaneswar,Ahmedabad/Hybrid[WFO+WFH])  
interview round by Prayag Monsara :

1. Introduce yourself
2. Tell me about any 2 best projects you worked on which are applicable for this job.
3. How many members were there in your team? What was your part?
4. Did you implement it in docker?
5. So how did this benefit the clinic?(Project is going to be used by a clinic hence sir asked how it will help the clinic)
6. What was the system/process used previously in the clinic?
7. Why do you used Spring boot?
8. Diff between spring and spring boot
9. Why do we use JPA in spring?
10. How did you send data from java to database? Did you use JDBC? and frontend to java?
11. Which dependencies did you used in Pom.xml?
12. How did you connect your backend to database? What methods did you use?
13. Does spring give dependencies automatically?
14. Have you created any project on react? Have you studied react?
15. What is this second project mentioned in you project on GIS?->BE project? What was your role in it?
16. What is react ?why do we use it?
17. Can browser read JSX directly? or do we need to convert it into anything?
18. Can browser read HTML and CSS directly?
19. What is diff between JSX and html?
20. Why do we use MySQL server?
21. Which language is MySQL written in?
22. Write a query to insert foreign key.
23. What is difference between Database and Table?
24. How to swap numbers without storing them in another temp variable.(just tell approach verbally)
25. How much will you rate yourself in Data structure on a scale of 10?
26. Which language are strong with?
27. Find median of two sorted arrays. Tell me approach first then we will see if we want to go into implementation.  
(Do you know what is median? Do you remember mean, mode, median?)
28. What is time complexity and space complexity of your approach?
29. What is n in time complexity? There are 2 arrays here so will the complexity be  $m+n$ ?

30. If we want to reduce the time complexity and not use another third array to store new array, what approach can we take?

31. Do you have any questions for me?

Kfintech interview questions

Introduce yourself

Some scenario base questions on project

What is interface

What is diff between abstract class and interface

Why we need interface

Write a program and show an example of interface

All above had to do in c#

Doubly linear linklist delete operation code

A scenario given and a table and asked to write a self join query

What is Asp .net

Ado.net

.net core

Configurations

What is bundled configuration

Who is responsible for memory management in .net

Any questions for me

Kfintech IV

Introduction

Project explanation

Technology used in project

Your role

How many pages u have created in react

Oops concepts

Inheritance

Encapsulation

Which languages u have learn during ur course

Which one you like ?

Flow of your project ?

If I hit a url of any site what happened internally?

Primary and foreign key differences

How you create a project in .net explain approach how you start your project after gathering information from client ?

Factorial code logic

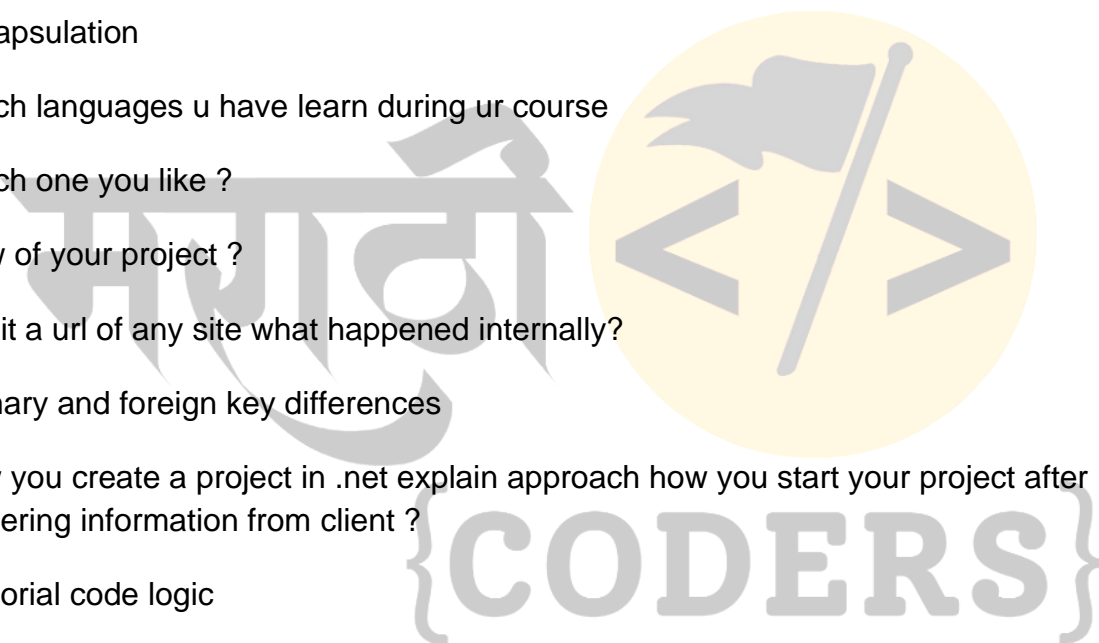
SQL query

Query on single table is efficient or query on two table is efficient means join ?

Do you know MVC explain it

You have devOps in your syllabus so which service you use to deploy ?

Explain steps to deploy project on aws





Sapiens

Tell technologies you learn in C Dac

Project Explanation

Are you willing to work on .net and C#

Program Structure of C# program

Polymorphism Example Method Overloading & Overriding

Method Overloading & Overriding is Compile time or Runtime

String Reverse

Right Join on Two tables

What are the primary key and foreign key can we have multiple primary keys

0.just asking how are you doing?How was your day? Is .net easy compared to java?  
Why are your marks less in .net?You dont like it?Are you comfortable with C#?Will you  
be willing to work on it?

1. OOPS concepts:(explain all 4 pillars with real life examples in detail)

2. write code of inheritance in c#

3.Write a code to reverse string in sentence word by word:

string input: I love my country

string output: I evol ym yrtnuoc

4. Access modifiers in C#?All types where do we use?

5.Where do we use Internal access modifier?

6.If i want to prevent access to any external assembly which modifier to use?

7.If i want to give access to only my current assembly which modifier to use?(i will  
decide later if inheritance is to be used or not)

7.If i want to give access to only external assembly which modifier to use?

8.If i want to prevent inheritance in my current assembly,which modifier to use?

9.Have you heard of protected internal modifier?

10.Boxing and unboxing

11.Types of indexes

12. I i have 5 tables containing info of employees name,salary,education,personal info  
and i want to show it what will you use?

Other than Inner Join can we use anything else?

13.What are Views?

14.Diff between normal table and view?

15.difference between delete and truncate

16.Which front end technologies have you worked on?

17.Have you worked on Javascript?

18.How to merge 2 columns in HTML?

19.If i have 2 jars one of 5 litre and 1 of 3 litre. How will you get 4 litres of water?

20.Any questions for me?

Sapiens interview round 2(Manager)Vishan Singh:

- 1.What do you know about c#?What have you learned till now?
- 2.Tell me about polymorphism.
- 3.Types of polymorphism.
- 4.Difference between abstract class and interface.
- 5.Boxing and unboxing.
- 6.What are delegates and events?
- 7.Types of delegates.
- 8.Difference between Java and C#?
- 9.What are generics?What are generic Collection?
- 10.Do you know about Reflections.
- 11.Why are you are having less marks in .Net and Web java?
- 12.Why shift from Civil to IT?
- 13.Any questions for me?

Sapiens interview round 3(HR)Manoj PV:

- 1.Tell me about your background?(Siblings,current location,parents,any gap)
- 2.Do you plan to go for higher education?
- 3.Tell me about your project.Project flow.
- 4.Tell me about your role in the project(CDAC & BE).
- 5.Why shift from Civil to IT?
- 6.Are you ready to shift to banglore?
- 7.Tell me about yor BE project.
- 8.What is your short term goal?
- 9.Where do you see yourself in 5 years?
- 10.What are your strengths?
- 11.What is your weakness?
- 12.Do you have any relative staying in Bangalore?
- 13.Any questions for me?

Sapiens(6.5LPA/Banglore/WFO) interview round 1 by Nitin Katte:

- 0.just asking how are you doing?How was your day? Is .net easy compared to java? Why are your marks less in .net?You dont like it?Are you comfortable with C#?Will you be willing to work on it?
1. OOPS concepts:(explain all 4 pillars with real life examples in detail)
2. write code of inheritance in c#
- 3.Write a code to reverse string in sentence word by word:

string input: I love my country

string output: I evol ym yrtnuoc

4. Access modifiers in C#? All types where do we use?

5. Where do we use Internal access modifier?

6. If I want to prevent access to any external assembly which modifier to use?

7. If I want to give access to only my current assembly which modifier to use? (I will decide later if inheritance is to be used or not)

7. If I want to give access to only external assembly which modifier to use?

8. If I want to prevent inheritance in my current assembly, which modifier to use?

9. Have you heard of protected internal modifier?

10. Boxing and unboxing

11. Types of indexes

12. I have 5 tables containing info of employees name, salary, education, personal info and I want to show it what will you use?

Other than Inner Join can we use anything else?

13. What are Views?

14. Diff between normal table and view?

15. Difference between delete and truncate

16. Which front end technologies have you worked on?

17. Have you worked on Javascript?

18. How to merge 2 columns in HTML?

19. If I have 2 jars one of 5 litre and 1 of 3 litre. How will you get 4 litres of water?

20. Any questions for me?

Sapiens interview round 2 (Manager) Vishan Singh:

1. What do you know about C#? What have you learned till now?

2. Tell me about polymorphism.

3. Types of polymorphism.

4. Difference between abstract class and interface.

5. Boxing and unboxing.

6. What are delegates and events?

7. Types of delegates.

8. Difference between Java and C#?

9. What are generics? What are generic Collection?

10. Do you know about Reflections.

11. Why are you having less marks in .Net and Web java?

12. Why shift from Civil to IT?

13. Any questions for me?



Sapiens :

- 1)Introduce yourself
- 2)What is OOP?
- 3)Is java is fully OOP or not?
- 4)code for even odd number?
- 5)4 snippets outputs?
- 6)what is wrapper class?
- 7)what is inheritance?
- 8)public static void main( string [ ] args) - Explain meaning of that statement.
- 9)What is abstract class?
- 10)What is type of constructor & Explain with example.
- 11)Explain your project?
- 12)How inheritance work in your project class?
- 13)If main method is not static then it will run or it will give error?
- 14)Difference queries on database.

Sapiens(6.5LPA/Bangalore/WFO) interview round 1 by Nitin Katte:  
Student name: Mayur Chaudhary\_CDAC\_TVM\_March-2022\_DAC

0.just asking how are you doing?How was your day? Is .net easy compared to java?  
Why are your marks less in .net?You dont like it?Are you comfortable with C#?Will you be willing to work on it?

1. OOPS concepts:(explain all 4 pillars with real life examples in detail)
2. write code of inheritance in c#
- 3.Write a code to reverse string in sentence word by word:  
string input: I love my country  
string output: I evol ym yrtnuoc
4. Access modifiers in C#?All types where do we use?
- 5.Where do we use Internal access modifier?
- 6.If i want to prevent access to any external assembly which modifier to use?
- 7.If i want to give access to only my current assembly which modifier to use?(i will decide later if inheritance is to be used or not)
- 7.If i want to give access to only external assembly which modifier to use?
- 8.If i want to prevent inheritance in my current assembly,which modifier to use?
- 9.Have you heard of protected internal modifier?
- 10.Boxing and unboxing

- 11.Types of indexes
12. I i have 5 tables containing info of employees name,salary,education,personal info and i want to show it what will you use?  
Other than Inner Join can we use anything else?
- 13.What are Views?
- 14.Diff between normal table and view?
- 15.difference between delete and truncate
- 16.Which front end technologies have you worked on?
- 17.Have you worked on Javascript?
- 18.How to merge 2 columns in HTML?
- 19.If i have 2 jars one of 5 litre and 1 of 3 litre. How will you get 4 litres of water?
- 20.Any questions for me?

Sapiens interview round 2(Manager)Vishan Singh:

- 1.What do you know about c#?What have you learned till now?
- 2.Tell me about polymorphism.
- 3.Types of polymorphism.
- 4.Difference between abstract class and interface.
- 5.Boxing and unboxing.
- 6.What are delegates and events?
- 7.Types of delegates.
- 8.Difference between Java and C#?
- 9.What are generics?What are generic Collection?
- 10.Do you know about Reflections.
- 11.Why are you are having less marks in .Net and Web java?
- 12.Why shift from Civil to IT?
- 13.Any questions for me?

Sapiens Interview Question

- 1.Introduce Urself and explain ur cdac project
- 2.Explain Oops concept
- 3.Explain Overloading and Overriding
- 4.Write a code on overloading
- 5.Write code on Reverse String word by word  
Input :- I love my country  
Output :- I evol ym yrtnuoc
- 6.Write a code on count character sequentially

I/p :- aaabbbddcaa

o/p :- a3b3d2c1a2

7.What is data structure?

8.What is Sql?

9.explain DDL,DML,TCL

10.explain drop,truncate and delete.

11.What is C#?

12.Which Access specifier present in C#?

13.difference between protected and internal

14.Do u know about solid property?

15.How can we merge two column in html?

16.How can we merge two row in html?

Ref :-      First Name          Sub.                  Marks

		Sub-1.	23
Chetana.		Sub-2.	22
		Sub-3.	23

Write a code for it only for merging.

17. Do u have any questions?

Tell technologies you learn in C Dac

Project Explanation

Are you willing to work on .net and C#

Program Structure of C# program

Polymorphism Example Method Overloading & Overriding

Method Overloading & Overriding is Compile time or Runtime

String Reverse

Right Join on Two tables

What are the primary key and foreign key can we have multiple primary keys

self introduction?

oops concepts?

Give rating to you in oops concept?

Write syntax for inheritance?

what is searching array types?

write the binary search algorithm?

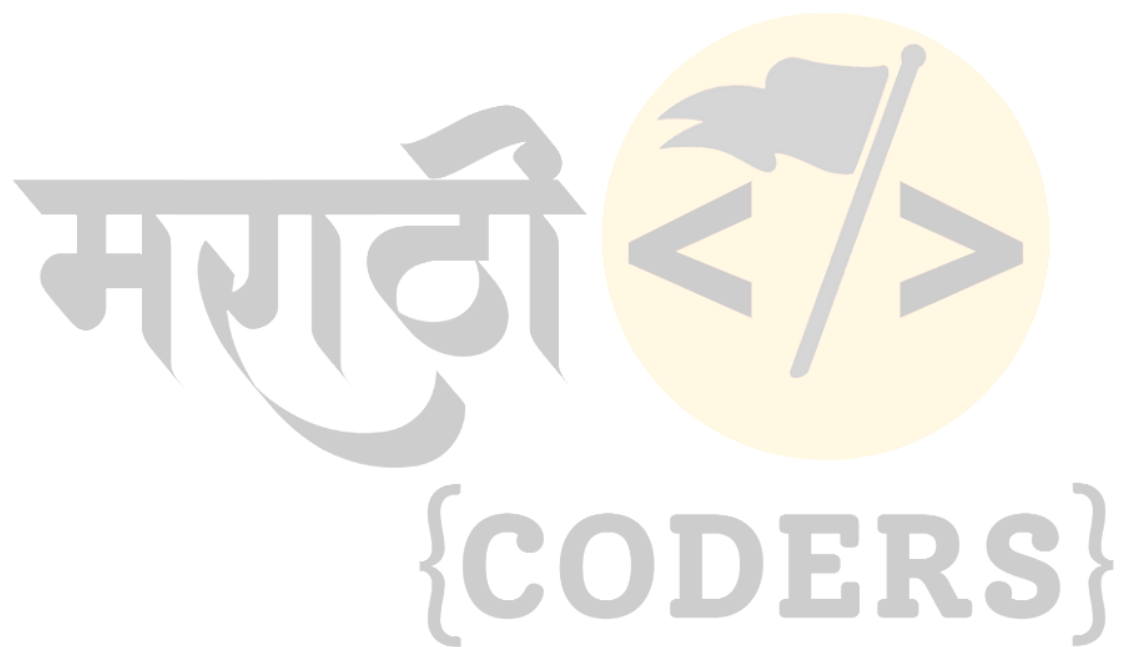
Ask any question?

## Sapians

1. Technologies learn in course and Project in brief.
2. Database use to store the data in project system.
3. Frontend to backend project connection flow.
4. User interface part related to project.
5. Explain C# page interface -- what is Namespace, class, assembly, different imports in any programs.
6. OOps concepts inheritance with code implementation.
7. How to create object and access properties of other class.
8. What is interface and abstract class difference and implement it with code.
9. Coding logic -- string reverse, string characters count.
10. Sql info, database intro, dbms types why we use db, functions and procedures.
11. execute query -- join two tables and show similar named id and names.
12. types of joins.
13. Questions for me.

## Questions -

- 1.Introduce yourself.
- 2.Explain project .
- 3.write a query of peticular skill search from job seeker in your portal (project releted).
- 4.What is C# , why do we use C# ?
- 5.What are the C# access modifiers ?
- 6.What is CLR ?
7. What are generics in .NET ?
- 8.What are delegates and types of delegates ?
- 9.What is an object pool in .NET ?
- 10.What is difference between java and c# ?
- 11.Explain OOPS concepts with examples ?
- 12.What are the types of classes in java ?
- 13.what is singleton class ?
- 14.What is inheritance ,write down the code of inheritance ?
15. Write down the code of Reverse String word by word  
Input :- I love my country  
Expected result:- I evol ym yrtnuoc code



Bajaj Market

1. What is serlization
2. What is hql in hibernate
3. Write two code  
For string reverse

For array multiplication

4. What is encapsulation
5. What is abstraction
6. Introduction
7. Project
8. String builder vs string

Bajaj-Market

- 1) intro
- 2) write rest api
- 3) write service and service Impl
- 4) how many sorting method are available
- 5) Implement one of them
- 6) time complexity of bubble sort
- 7) write program to remove duplicate element from array
- 8) Any Question

Bajaj Market - Interview

1. Intro Yourself
2. About Project - Tools, Technology, backend
3. What is abstraction?
4. What is singleton Web Application
5. Spring boot - mapping
6. ORM in spring boot
7. They said open notepad and write a logic 1. input array = {2,4,1,5}; then output is = {20,10,40,8} 2. Reverse a string

Bajaj Market interview :-

- 1) Introduce yourself
- 2) what is string pool? Why it is used ?
- 3) Do u know hashmap? What is load factor. Initial capacity of hashmap? I said 16 . After 16 what happens. I said there is one formula using that we calculate load factor with initial default capacity 16.
- 4) explain static binding and dynamic binding in polymorphism.
- 5) one scenario based question.. That i have to sort objects.

- 6) write a code for Fibonacci.
- 7) explain comparable and comparator
- 8) tell me about your project.
- 9) Do you know restful web services?
- 10) what are the http methods that are used in rest api?

Bajaj Market:

oop in java: all pillars  
what is abstract class  
difference between abstract class and interface  
why we use interface  
do you know about collections  
in notepad write complete code for List operations  
if need to print just even numbers from the above list  
Do you have any self project made till date?

Bajaj Markets

- 1.Types of class loaders in Java
2. Difference in Concurrent Hashmap and Hashmap
3. Tree Traversals  
Which is more efficient.
4. Implement run time polymorphism
- 5.String reversal code
6. Palindrome code
- 7.OOPs pillars with examples.
8. Difference in interface and abstract class . When to use what.
9. What is Rest .  
Methods in rest.
10. Write a REST api for contact number and first name.
11. @SpringBootApplication , @RestController Usage

Then branch specific questions

1. What is handshaking in networking.
2. What is Modulation .
3. Types of modulation
4. How is depth of sea measured ?
5. Two wave with 5Ghz and 2.5Ghz of frequency . Which will travel farther .
6. Working of Bluetooth.

Bajaj Finserv

Coding test on HackerEarth,  
total 13 questions - 11 - Tech MCQ and 2 Coding Questions

Second Round Technical Interview - for 35 min -- Core Java, Advance Java and SQL

1. Introduce Yourself,
2. Explain Final Year Cdac Project As I have implemeted payment gateway so he was more interested in it and asked how it works,
3. What is web redirection
4. Flow of request --- response in Project Starting from Front end form till data base and,

Explained this with all the small details and also in terms of code

5. What is collections and its hierarchy
6. What is generics and why we should use generics
7. Exception Hierarchy,
8. Can we throw errors? If Yes, can we handle erros, and what will happen when we throw errors
9. What is Static Methods and Variables
10. Can we override static methods, and if we override static methods will it be compile time exception or RTE?
- 11 . What is difference between Encode and Encryption
12. What is JWT, and REST API

13.create table by using below fields  
id, name, sal, doj, deptId



#### 14. Queries asked

```
select deptno,sum(sal) from employee group by deptno;
```

```
select deptno,sum(sal) from employee group by deptno having sum(sal) > 5000;
```

#### 15. Collection Scenario

```
List<Employee> list=new ArrayList<>();
```

```
Employee emp=new Employee(10,"Prasad",2500);
```

```
list.add(emp);
```

```
emp.setName("Abhi"); // if we print list how it will appear
```

```
emp=new Employee(11,"Sumeet",400); // if we print list how it will get printed after this line
```

Bajaj Finserv

introduction

Java 17 features

Java 8 features

What is Stream API

Thread life cycle

Working of HashSet

Can we override static method ?

and 2 3 questions more.

Company:--Bajaj Finserv (8.2 LPA)

round 1 -- write API and check with postman and post details on given link

=====

round 2 -- technical mcq 11 questions(medium level) + 2 coding question

=====

(1st Ques done with all cases for me..... 2nd Ques not run only compilation done completely)

round 3 -- technical

=====

-- introduce yourself briefly

-- why you are shifting from mechanical to IT( required very solid proof....he will ask this one question to min till 5 min.)

-- what factors because of which you came here....money??? or something else  
(if you are not from cs / it then prepare this question very seriously.....this question affects your interview most ....i think)

--which version of react you used in your project???

--explain your project??? which technology??? why spring boot??

-- the use of spring boot i tell....he ask me that ....most of these are also given by node ,then why you not use node.js???

-- give senario

4 technologies are there.....on which thing you select you technology for your project???

(mostly I tell spring boot.....but he said if company req. node then what you do.....because u r preferable in spring.....how will you handle that situation???)

--give 3 main aspect to select any technology which is 100% suitable for project and company benefits

(Above 2-3 question are only for your confidence checking..and situation handling.....he not required how i good in my tech skill)

-- code==

write one function contains string as argument.....check it is palindrome or not.....return only true or false in output

(He ask me to share screen and write code in notepad .....need to write full program ....not only logic.....not ask to run the program)

round 4 - HR(only 2 min ....on mobile call)

=====

--how is your interview ???

--is pune location preferable???(pune and banglore given in job discription??

--any question???

NetSPI

Prasad Gawade

Pattern

1 test -- Reliscore platform --- there will be 6/7 different sections and 1 coding question,

First Round Tech interview

1. Introduction and Project Explanation and as I have deployed my project on docker I have shared link in chatbox
2. What is HTTP, and What is REST API,
3. How you managed session in backend (In Rest Web service we do not manage session in the backend )
4. WHAT is JWT and Web Security
5. Write a code to to show right hand side view of the binary tree in IDE
6. What is difference between Spring and Spring Boot
7. Why You used react js
8. Which external libraries you have used in project,
9. Have you used any external APIs in project in front end or backend.

Second Round -- (Prepare all concetps related to JWT security in depth)

1. Introduction, Why You left Old Organisation ,
2. What was your project

3. Explain in detail JWT Working, (You will be able answer all questions only if you have done everything by yourself)
4. Concepts regarding process and multithreading
5. What is process and thread
5. Java -jar what will this command do will it create process or thread
6. What are stored procedures and views
7. Given one scenario asked me to discuss design

book can be issued to many users  
user can have many books  
one book belongs to one library  
one book have many authors  
one author can write many books

8. Explain the working of garbage collections
9. What is memory leak in java, what can you do to minimize it.

\*\*\* NetSPI \*\*\*

2 Codes:

1. Given a string, you need to sort it by the frequency of alphabets in it. Sample i/p: tree  
| sample o/p: eert
2. Merge two sorted arrays and sort them while merging itself.

Q1.What is internal working of HashMap?

Q2.What is internal working of HashSet?

How does it detect duplicate objects?

What if I override the hashCode function and return 0 for every object? Suppose, If I created a class of employee and want the insertion based on employeename, what would happen if the employeename was different and hashCode returned 0 for every employeename? would it identify the objects as duplicate or different?

Q3.What are checked and unchecked exceptions?

Q4.In multithreading, if my machine is single core, and I wrote a code to create 5 threads, will it create 5 threads?

What would happen if the machine was of 2 cores?

Q5.Is java fully object oriented? What makes it incompletely object oriented?

Q6.How the diamond inheritance issue is handled by java?

Q7.How can I implement the methods if 2 interfaces having same method?

Q8.What is your favourite feature of Java 8?

--Frontend / JavaScript:

Q1. What are higher order functions?

Q2. Difference between normal function and arrow functions?

Q3.Difference between forEach and map functions?

Q4.o/p of i) 5+'3' in java and javascript?

ii) 5-'3' ?

iii) 5-'-3'?

Q5.ES6 features?

There were few more questions. unable to recall now

{CODERS}

NetSPI

-----

1st Round:

Introduce yourself

How do you rate yourself in java

What is checked and unchecked exception & asked for example

When Interrupted exception occurs

What is Multithreading

What is synchronization

Producer consumer problem

Wait, notify, notifyAll

Class level locking, Object level locking

Asked about BST, Disadvantage of BST, Applications of tree, AVL tree, Asked little bit about graph

Write a program for BFS in tree

How do you rate yourself in javascript

Asked about project and then about React

Class components....Life cycle methods

Hooks used in project

2nd Round:

Introduction

What are stored procedures....why their is need to use stored procedure?

Asked to design a schema

{

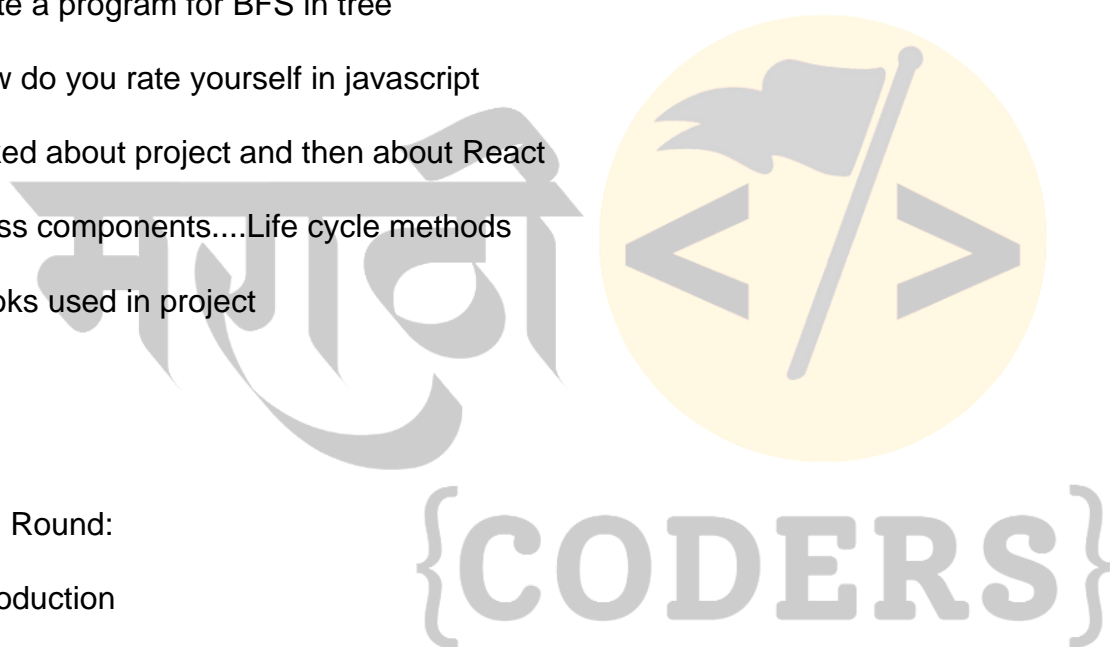
A Library has many books

One book can be in only one library

A user can have many books

A book can be taken by many user

.....



.....

}

Sql queries

What is Garbage collection in java

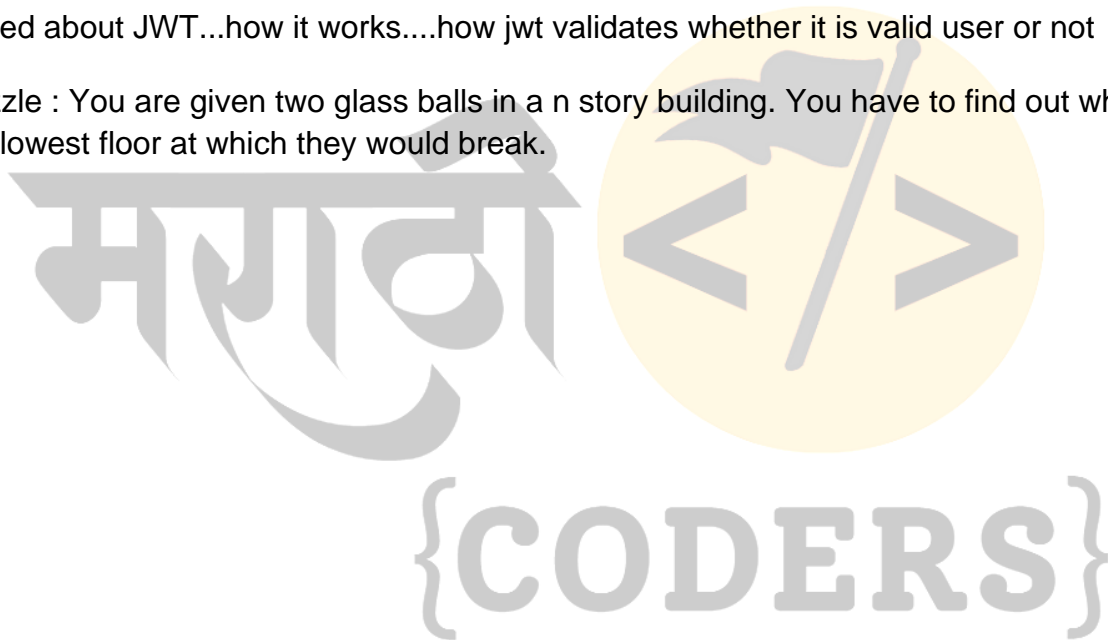
What is memory leak in java

Regarding Process and threads

Brief about project

Asked about JWT...how it works....how jwt validates whether it is valid user or not

Puzzle : You are given two glass balls in a n story building. You have to find out which is the lowest floor at which they would break.



MorningStar

Morning Star L1

- 1) spring bean life cycle
- 2) 5 scope of spring bean
- 2) event handling in spring
- 3) tell me about promises
- 4) wht is normalization
- 5) wht is trigger
- 6) wht is function
- 7) what is procedure
- 9) write a query to display 3rd highest salary
- 10) write a query to display duplicate name
- 11) what is garbage collection
- 12) tell me about solid principal..
- 13) delete, truncate, drop difference
- 14) briefly tell me about ur project



{CODERS}

introduction

cdac journey

B.E. project in details how it work

why IT

about cdac project

rate yourself in java

oops concept with detail with real time example

how we achieve abstraction

how we achieve encapsulation

what is runtime polymorphism

why we call compiletime polymorphism

why we call runtime polymorphism

diff bet overloading and overriding



what is multithreading  
diff bet runnable and thread  
when to use runnable and when thread  
what is interface  
how we achieve multiple inheritance through interface  
(in we have two interface having 4 abstract method each then how multiple inheritance works)  
what is exception handling  
when to use throw and throws  
query to find marks greater than 40 (join query)  
what are the joins  
how string memory allocation is happening  
String a= "Prashant";  
String b= "Abhi";  
String c= "Prashant";  
why string immutable  
any questions;

#### Round1

1. Introduction
2. Relocation ready to shift Mumbai
3. Password encryption decryption in project. Other options
4. Project in detail
5. Types of constructor
- 6 CTS and CLS
- 7 Assembly
- 8 managed code and unmanaged code.
- 9 Normalization upto 2 NF
- 10 mvc
- 11 function vs stored procedure
- 12 class and object

---

#### Round 2

1. Introduce yourself.
- 2 . Ready to learn angular
3. Project in detail.
4. How you will implement polymorphism in project.
5. View and indexes
6. Coding problem of reverse string

I/p "I am student of cdac"

O/p "cdac of student am I"

7. Tell me two strength and two weakness.
8. How will you overcome your weakness.
- 9 . How will you do self learning.
10. Any questions for me.

Hr

1. Introduce yourself
2. Why mechanical to it
3. Any internship after graduation
4. If you have lot of time and money what you will do.
5. Tell something about morning star
6. Other discussion like joining date and role

Be confident through entire process. If you stuck at anypoint ask for hints. Be honest.  
Try to explain code while writing

MorningStar

Candidate name -> Sanket Hiremath

Batch -> March to Sept 2022

First of all I would like to suggest that please be Honest while answering, If you don't know the answer, don't bluff. Tell them I don't know.  
Have some energy & grace while answering the questions.

Morning Star Interview 1st Round :-

1. Introduce yourself
2. Explain Data Flow from Front End to the Back End.
3. How did you do validations in your project.
4. What is json?
5. Explain OOPS Concepts with Real Life Example.
6. If I want to print my name 100 time, How can I do it in java.
7. What are different ways of Creating object in java?
8. What REST api methods?
9. Explain the types of Spring Beans.
10. Why you used Spring Boot for your project?
11. What are the different features of Spring Boot?

12. What will you do if Exception happens in the for loop? (Exception Handling & Throws Keyword)
13. Can we write Try block without catch block??
14. When we handle the exception? What will you Catch first, USER DEFINED EXCEPTION OR EXCEPTION??
15. What is Hibernate?
16. What is the advantage of using hibernate?
17. Do you know anything about spider? (Then she explained me what is spider)
18. Why you changed your career from Mechanical to Software?
19. Do you have any questions for me?

#### 2nd Interview Round :-

1. Introduce yourself
2. explain your project, your role and responsibilities?
3. Why did your teammates choose you as a Project Leader?
4. Can you justify your leadership qualities?
3. What are the things that you found interesting in Java? (I told him OOPS and Exception Handling)
4. How did you Handled Exceptions in your project?
5. How did you implement OOPS concepts in your project?
6. If I select you to work on a project, what will be your approach & in how many days you will start to contribute in project?
7. While you were working in your previous company? what things you found interesting?(I was working in Mechanical Industry Earlier)
8. Do you think that your project will completely replace XLS sheets & Word Documents completely?
9. As a leader, If your team fails what will you do?
10. Do you love solving problems?
11. What is approach to solve a problem?
13. What will be your approach to learn any new technology? - (They want to check whether you have self learning ability)
14. Why you changed your career from Mechanical to Software?
15. You are from solapur, so are you willing to relocate?
16. Do you have any questions for me? (I asked him two question) - please note that you ask meaningful questions.

#### HR Round :-

1. Tell me about yourself?

2. Why you changed your career from Mechanical to Software?
3. Why you want to Join MorningStar?
4. Are you willing to relocate?
5. Are you willing to work in shifts?
6. Explain me your Engineering Project?

#### Morningstar technical interview

1. Tell me about yourself
2. Which languages are you most comfortable with?
3. What is difference between stack and heap?
4. Can u overload main function?
5. What is string pool?
6. How to use hashmap to add data?
7. What will happen if we use throws IOException on parent class and throws Exception on child class
8. Why wait and notify is declared in Object class instead of Thread?
9. Puzzles (2 questions )

Company- Morning Star Date: 12/10/2021 My advice is tell them don't know if you don't know about any topic don't go for assumption . Keep accuracy in your answers L1\_

Technical Round 1 1- Tell me about yourself ( tell them project name in introduction and tell them about ur contribution in project here itself. they will directly start your interview with that topic) 2- About project- Brief introduction 3- Which language your comfortable? ( I said java and mysql) 4. Tell me about java. 5. Tell me about oops. 6. explain pillars of oops 7. abstract class vs interface 8. polymorphism & its types 9. Inheritance and types. 10. About multiple inheritance 11. tell me about exception 12. exception hierarchy 13. How you manage exception in java if exception occurs? 14. tell me about collection 15. Different collection and hierarchy collection 16. ArrayList vs linked List 17. Create object of array list. Add elements. Print the list 18. Output of below codes

```
public static void main (String args[]) { System.out.println(5 * 5 + "Morningstar");
System.out.println("Morningstar" + 5 * 5); public static void main (String args[]) { for(int i=0; 0; i++) { System.out.println("ALL THE BEST"); } System.out.println("BYE"); } } class Person { public Person() { System.out.println("Person class constructor called"); } } public class Employee extends Person { public Employee() { System.out.println("Employee class constructor called"); } public static void main (String args[]) { Employee e = new Employee(); } }
```

19. Tell me about string 20. What is mean by when you try to perform action on string object I will not modify object? 21. What will happen in this case String s="Shubham" String a= new "xyz"; 22. What is difference

between string pool and heap in case of string. 21. Why object gets created with same content in heap and why not in string pool? 22. What will you do to avoid multiple object of same content in Heap? 23. What is spring boot? 24 Why spring boot for project? 25. What is difference between spring mvc vs spring boot? 26. How did you achieve login logout in project? 27. Validation in project. 28. How did you manage login logout part in react js. 29. Delete vs truncate 30. then what is drop 31. what is primary key 32. What is unique key 33. can we have primary key and unique key in same column 34. If I have primary key in table and now my requirement changes I want to store duplicate values in that column then what can I do? 35. What will happen if I try to drop same table and how should we drop that table? 36. Name some constraint in my sql 37. What is DML and DDL commands 38. Checked vs unchecked exception 39. Try,catch,finally 40. Relations in your project database table 41. Which version of java you used 42. Name some java 8 feature 43. What is default method 44. Any questions for me? L2 Level 2 Technical Interview 1. Tell me about yourself 2. Tell me your L1 interview experience 3. Explain your project 4. Overloading vs overriding 5. Interface vs abstract 6. What is authorization and authentication 7. How will you manage traveling from your location to vashi? 8. Then he told me to write string palindrome code on notepad and he stated talking with me may be he wants to test my ability of multitasking 9. Then he told me to copy the code in the eclipse and run it 10. If you are comfortable on java will you work on c sharp? 11. Anything is there which you have not achieved in your project or pending work? Just be honest 12. Any question for me ? L3 – Hr 1. Tell me about yourself 2. Tell me about company 3. How will you manage traveling from your location to vashi? 4. You will get to work with another technology. Is it ok for you? 5. Where you are seeing after 2 years in company? 6. Any questions for me.?

{CODERS}

HeraldLogic

Herald logic Round-1

1. write a program which return true and false

arr[]={1,2,3,5}

if addition of two array elements are equal to target element

target = 8

o/p = true

- 2.what is complexity of program ,can you do it in  $O(n)$
- 3.explain collection hierarchy
- 4.what is diff between LinkedHashSet vs HashSet
- 5.what is use of Iterator
- 5.If we have foreach loop then why there is need of Iterator
- 6.explain exception handling (checked vs unchecked)
- 7.how we handle checked and unchecked exception
- 8.trow vs throws
9. explain project? what was the difficult part in it and why ?  
what was the complexity of that part?(I said login validation)?
- 10.Do you used encryption to save password how it is stored in database?
- 10.Why CDAC?

Motilal Oswal

FS interview questions:-

- 1) introduce yourself?
- 2)what is abstraction?
- 3) what is static binding?
- 4) what are features of reactjs?
- 5) virtual functions/methods?
- 6) function overloading
- 7) what is polymorphisms?
- 8) if you are a fresher what were you doing one year?
- 9)  $18=30\%$  of  $x$  ? Solve orally
- 10) 4 by 4 inches a empty rectangular wall is there and 4 by 4 tile is there then how many tiles are required for that wall to fit in ?
- 11) what is string class ?
- 12) what is difference between string buffer and string builder ?
- 13) what is primary key?can primary key have null value or not?
- 14) what are constraints used and name some of them ?

Verifone

- 1)project
- 2)comparator vs comparable  
Where we use both of it
- 3)Arraylist vs Vector

- 4) serialization and deserialization
- 5)oops in java
- 6)why we used @transactional at service layer
- 7)IOC and dependency injection
- 8)tell me annotations used in ur project
- 9)get vs load
- 10)node.js vs web application
- 11)collection hierarchy
- 12)Crud operations
- 13)View in database
- 14)post and put
- 15)RestController vs Controller

Verifone

All about project

- 1)N-tier architecture of project
  - 2)ATM machine scenario based question: what all conditions will you test
- Which database used for project
- 3)How to create database and table
  - 4)Default port of MySQL
  - 5)Fetch data from table of specific date
  - 6)Can we declare interface as final
  - 7)Can we write abstract method without abstract class
  - 8)Why do we create packages
  - 9)Explain polymorphism
  - 10)2-3 code snippets based on exception handling
  - 11)Swap 2 numbers with and without using third variable
  - 12)Write a program to count no of particular word in string using hashmap
  - 13)Significance of local inner class
  - 14)Why object is immutable in java
  - 15)Ways to write string
- Significance of final class
- 16)Agile methodology
  - 17)Garbage collection in java
  - 18)How to make write only class in java

Verifone



Introduce yourself

Project in BE and CDAC

- 1) diff bet http and HTTPS
- 2) How will develop chat application
- 3) What is jar file
- 4) What is XML file
- 5) collection framework que
- 6) algorithm for finding LCM of 2 numbers
- 7) How to iterate hashmap
- 8) What is class loader and class path
- 9) query to delete table
- 10) why main method is static
- 11) JVM architecture
- 12) How java is platform independent

Verifone

Student name : Suyash

Round 1: Apti 40 questions 20 min

Round 2: 1 code medium level and 5 mcq(mixed ds, os, network)

Round 3:

Techical View round 1

Introduction, asked which lang u r comfortable in i answered JAVA

Immedeatly asked to write code to remove duplicates from string

while i was writing he was also asking questions on what i was writing,

i was using hashmap in logic he asked what is map types of map diff btwnn hashmap

treemap all were answered. then he started with base class object access modifiers diff

btwnn java n c or cpp then asked about abstract class interface and gave me diff

secenarios , asked for reallife example.then asked about final keyword

multithreading all things how to create threads thread life cycles grabage collection

whole process synchronization need and how to use it

stream and stream api what are exceptions how we deal all possible combinations of try

catch finally then asked about advance java database connectivity one data base query

again came back on JAVA asked scenario based questions end of round1

Round 2: Managerial Tech asked about age gap and how u justify gap asked about

project which tech and whY? asked about APIs type and asked procedure to implement

3rd party apps

how to connect backend to database and how to connect front end with backend



asked about vanilla javascript functions asked basic questions on react functional and class comp how to connect data base with JS(was not able to answer) came back to java asked similar question which were asked in 1st round but in little deep switched to data structure asked questions on array and linked list diff and which is preferred for what operations few more questions on linked list tech discussion over asked abt my personal life and how i will tackle tricky situations asked abt company what i know about it after that discussion about personal life.

#### Comm Scope

- 1) intro
  - 2) networking
  - 3) protocols
  - 4) q related to entc
- What is dsp , your fev sub , tell me about tht sub

- 5) project related q
- 6) async sync
- 7) promises
- 8) javascript code
- 9) data types
- 10) data structures
- 11) map vs set
- 12 ) what is annotations

#### Used annotations

- 13) what is byte code
  - 14) what is compiler
  - 15) what is xor
  - 16) what is authentication
  - 17) if i write a java program on windows so can I use that java program on any os
  - 18) any questions for me
- .

#### Finlq

(11.85 LPA)

round 1 :- apti + logical + general studies mcq test + banking related concept mcq  
== 90 questions in 60 minutes

round 2 :-Technical Interview

(company having requirment for java, sql, .net, angular)

- what is your project
- technologies used in project
- how you connect backend to database???
- which part you do in project??
- how you implement oops concept in project???
- how use inheritance concept in project??( Ask separately again from oops concept)
- in project....database....how many tables??
- do normalisation for tables??? if yes .....how???
- how you connect tables and how the relationship (1 to 1 , 1 to many) you decided???
- difference in primary key & foreign key??
- is there are many foreign key in one table??

-- you know javascript???

if yes how many no out of 10 you give for yourself for javascript???

=====

Datametica

Rushikesh Sapate.

1. intro
2. role in project
3. why spring boot and its advantages
4. what is oops and its pillars
5. string vs stringbuffer vs stringbuilder
6. synchronized keyword its uses
7. threadsafe vs thread-unsafe
8. thread lifecycles
9. run() vs start() method
10. which version of java u have used in ur project
11. explain java8 features
12. why java8 is introduced
13. how streams are created why we need streams

{CODERS}

14. what is functional i/f what is its significance its examples
15. what is marker i/f how it works why do we need it
16. some qs about final keyword
17. run time binding vs compile time binding
18. checked expc vs unchecked expc and its examples
19. errors vs exception
20. how do you connected spring boot and mysql
21. what are the modules you have used in ur project
22. what is aop, DI-- how it works
23. bean lifecycle
24. few basic qs about spring boot (repeated in second round)

## 2ed round

1. intro
2. why spring mysql react is common for all projects
3. advantages of spring boot
4. explain all classes and service method in ur project (write in notepad)
5. explain spring boot internals
6. how do you tested ur spring boot projects. (junit test cases)
7. how do built ur project
8. difference between spring and spring boot
9. how do u configured spring project
10. explain pom.xml file
11. how maven works explain internals
12. how do u rate urself in java
13. explain threading synchronization, wait notify etc
14. if there are two sync methods m1 and m2 + we have two threads t1 and t2 can t1 access m1() and t2 access m2() at the same time
15. what tools you have used in your project
16. what is git
17. what u are looking to develop in urself in future

---- 2ed round was primarily based on maven and spring boot ----

## Maze

### questions

- 1) briefly introduce ur self
- 2) which java version u studied
- 3) features of java 8
- 4) tell mi oops concept
- 5) describe encapsulation
- 6) describe abstraction
- 7) write code for palindrome number
- 8) given one array and ask to print prime number
- 9) given one array and ask to remove duplicate in array
- 10) what is exception
- 11) how to handle exception
- 12) can we write catch block without try
- 13) can we write try without catch block
- 15) difference between throw and throws
- 16) what is multithreading
- 17) after thread start which method is called
- 18) how to achieve multithreading in java
- 19) what is springboot
- 20) advantage of restapi 😊
- 21) @service and @controller annotation
- 22) what is dependancy injection
- 23) which mapping u used
- 24) get vs put
- 25) wht is post mapping
- 26) linear vs nonlinear datastructure
- 27) operation of stack
- 28) what is complexity
- 29) if two for loop is there then what is time complexity
- 30) how to achieve  $O(\log n)$  complexity
- 31) what is cursor
- 32) what is dbms
- 33) function vs procedure
- 34) normalisation and its type
- 35) primarykey, composite key, unique key
- 36) what is joins and its type
- 37) write a query for any one join
- 38) do u know stream api - i said no
- 39) what is marker interface



{CODERS}

- 40) what is singleton class
- 41) what is multiple inheritance
- 42) which front end language.
- 43) java vs javascript
- 44) datatype in javascript
- 45) what is agile methodologies

Chemito

Interview

(Direct HR Round)

- 1.Introduce Yourself
- 2.U r from nagpur then how will u manage for job because this company is in Nashik
- 3.Are anywhere employee or not? As u did internship and there u work as professional or what ?
- 4.CDAC project and which technologies u used
- 5.What is Procedure and Function in mysql?
- 6.Difference between truncate and delete
- 7.Area of interest in technology?
8. What is java and javascript?
- 9.difference between java and C#?
- 10.How will u manage if u r working on .net?
- 11.Are u able to relocate here?
- 12.How will u manage as u r female any relative is here or have u ever come to Nashik?
- 13.Parents are ready for ur relocation.
- 14.What is ur future plans?
- 15.Are u planning for further studies?

Travelex

- 1)Introduce yourself.
- 2)Are you ready to relocate?
- 3)What is OOP ?Features of OOP With example.
- 4)What is mean by Database.
- 5 ) Types of joins? Explain in detail self join.
- 6 ) what is composite key?
- 7 )what is foreign key ,primary key unique key? Difference between all 3 .

- 8) What are the constraint in SQL?
- 9) What is stored procedure? Why we use stored procedure?
- 10) Explain your project.
- 11) What are the types of polymorphism? Explain in detail?
- 12) Why we use constructor?

Motifworks

(Nikita Subhash Kulkarni)

Round 1:

- 1) Introduce yourself
- 2) How was your day?
- 3) How was cdac going on?
- 4) In which part you are interested frontend or backend?
- 5) Project related questions.
- 6) Database query :  
create table customers and order  
write a query for retrieving a customers who haven't place any order.
- 7) Overloading and overriding

Round 2:

- 1) Introduction
- 2) In which technology you are interested(I said java and db)
- 3) OOPS concept
- 4) How you can secure variables in methods and functions
- 5) Database query same as round 1
- 6) Some normal discussion on oops and database

NSE

iv starts with coding 4 question:-

- 1) Write program to print 1 to 100
- 2) Write without using for loop
- 3) Write palindrome number?
- 4) Create array and delete any element from it and print this element ?

- 1)what is oops?
- 2)What do you mean by type-erasure?
- 3)what is the difference between Serializable and Externalizable?
- 4)Can we provide copy constructor explicitly in java?if yes then how?
- 5)hybrid inheritance explain in c++;
- 6)what is virtual pointer and friend function in c++;
- 7)what is join ?and their types;
- 8)what is query ?and subquery?
- 9)difference between hashmap and linked set?
- 10)types of relations in rdbms?
- 11)write any query ?

INFOBELL

- 1.Can you speak for 2 min on any topic.
- 2.Introduce yourself.
3. which language your are familiar with
4. What is exception handling? why we use finally block.
- 5.what is oops?
- 6.can you explain pillars of oops.
- 7.why we use Inheritance, what are the advantage of it.
- 8.How to acheive method overloading and overriding.
- 10.How to call overridden methods.
- 11.How you used java in your project.
- 12.Write a code for below Quatter.

```
int am[] = {10, 20, 50, 30, 20, 30, 50, 20, 30, 20, 30, 50}
```

we have to count no of repetition of each element present in the array and print the element whose count is odd times.

INFOBELL IT :

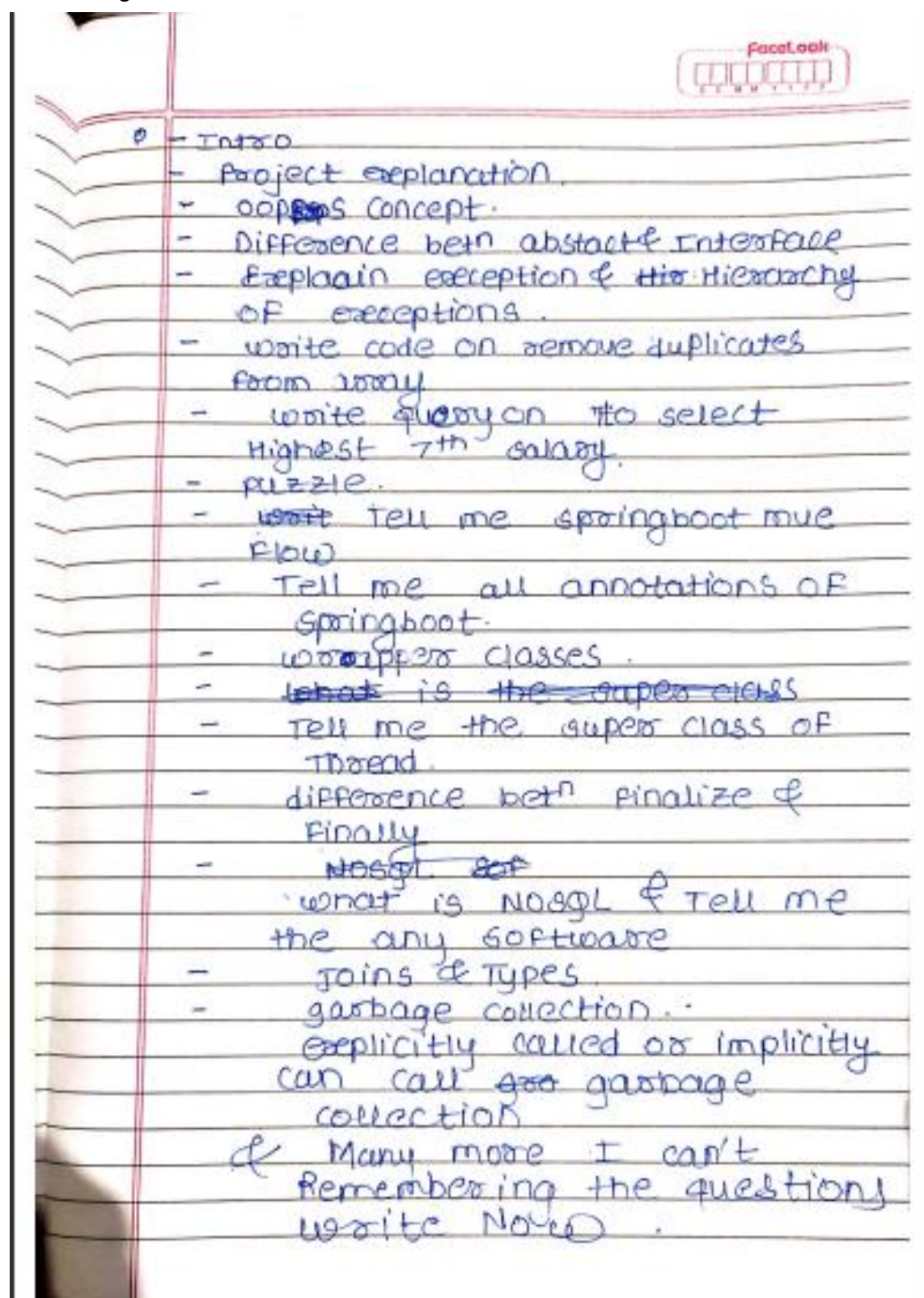
Technical Round:(Panel had 2 members)

- 1.Introduce yourself.
- 2.Asked to speak on a non technical topic for 2 mins.
- 3.Which language you prefer?(JAVA)
- 4.OOPS concepts and explanation.
- 5.Difference between interface and abstract class.
- 6.Coding question: Find all pairs of numbers in an array whose sum is equal to input given by user.(Shared screen and did using online java compiler link given).
- 7.JIT Compiler.
- 8.Software development life cycle.
- 8.Project related: Technologies used, working of the web application from user point of view. B.Tech project and working.
- 9.Any questions?

HR Round:

- 1.Introduce yourself.
- 2.Where would you rate yourself on technologies learnt? What are the technologies learnt?
- 3.Family background.
- 4.What is mysql? What type of database? What kind of data it can hold?  
POSTGRES SQL?
- 5.Mongo db related.What type of database?
- 6.Linux commands: To create a new directory, change directory, kill a process
- 7.How would you rate yourself on communication skills?
- 8.U know R Programming and Python?
- 9.Have you done any presentations/seminars?
- 10.Are you ok to relocate to Bangalore?
- 11.Strengths and weaknesses
- 12.Practical diff between Agile and Waterfall methodology.
- 13.Any questions?





## Technical Interview

- 1.Tell me about yourself + project.?
  - 2.what was your roll in the project.?
  - 3.explain the functionality of project?
  - 4.Write a code in reactjs to render the data into tabular format( table Emp,Columns->sr.no, Name, designation,etc)?
  - 5.explain the flow(technically) of your project(code)?
  - 6.what happens when data is entered at client side(frontend)?
  - 7.what is Jpa?
  - 8.difference between function and class as a component?
  - 9.How did you designed database of your project?
  - 10.Do one Query for students who scored more than 30%?
  - 11.write a code -fibonacci series?
  - 12.Rate yourself in java,reactjs,database out of 10?
  - 13.Difference Abstarct class and Interface?
  - 15.if you want to expertize in a specific technology which will it be?
  14. do you have any questions for me?
- 

## Managerial Interview

- 1.Tell me about yourself + project.?
- 2.what was your roll in the project.?
- 3.Share your screen show your project and explain the flow(technically) of your project?
- 4.what will be the output snippets ?

```
public static void test1() {  
    for (int i = 1; i <= 10; i++) {  
        System.out.println(i + ". Baker Hughes");  
    }  
}
```

```
public static void test2() {  
    int counter =1;  
    for (int i = 1; i <= 10; i++) {
```

```

    for (int j = 1; j <= 10; j++) {
        for (int k = 1; k <= 10; k++) {
            System.out.println(counter + ". Baker Hughes");
            counter ++;
        }
    }
}

```

5.what will be the output?

```

int[][] arr = new int[5][5];
int counter = 1;
for (int i = 0; i < 5; i++) {
    for (int j = 0; j < 5; j++) {

        arr[i][j] = counter;

        counter++;
    }
}

```

6.write a code to print diagonal elements of above 2d array?

7.write a code to print diagonal elements in reverse of above 2d array?

8.what will be the output ->snippet on constructor chaining? why?

9.do you have any questions for me?

GEP Solutions Pvt. Ltd.

**Swapnil Dilip Pachupate**

**Technical Round (R1 Interview):**

**(By Software Lead - Engg.)**

1. Introduce yourself

2. Project Details
3. Your role in project
4. What r u comfortable with Java or .Net
5. So ur project was on MongoDB, Tell me why you choose MongoDB
6. Advantages of MongoDB over MySQL
7. Oops concepts in Java
8. What is abstract class
9. Diff. between Abstract class & Interface
10. What is Sealed class
11. You have used SpringBoot, What are microservices in java
12. Describe microservices architecture
13. Structure of microservices
14. What is RestAPI
15. How do you write RestAPIs
16. Full form of RestAPI
17. What is better - RestAPI or Microservices
18. Diff. between RestAPI & Microservices & explain working/functioning of both
19. Real Life scenario- If u r creating an online shopping site/application. What will u use RestAPIs or Microservices to develop it
20. And why... explain
21. Explain Dependency injection & how do we achieve it
22. What is singleton class
23. How do u create the first instance of singleton class
24. Where do we use singleton classes
25. Explain getInstance() method
26. Explain static methods
27. Diff. between normal & static methods
28. Diff. between static & non-static methods
29. Have you learnt AngularJS (I said No, I have learnt HTML, CSS, JS and Reactjs. Then he asked questions on JS)
30. Explain inheritance in JavaScript. How do u achieve it
31. What is prototype in JavaScript
32. How to change prototype
33. What are JavaScript promises. How do u use them
34. What is state & result in JS promises
35. What are 3 states of promises (Resolved, Reject, Pending)
36. What are synchronous and asynchronous API calls. Diff. between them
37. Adv. & Disadv. of sync & async API calls
38. Which one of them is better to use & why

### Leadership Round (R2 Interview):

(By Associate Director - Engg.)

1. Introduce yourself
2. Project Details
3. Your Role in project
4. Why IT over Chemical
5. Explain What is MongoDB
6. What is MongoDB basic architecture
7. How to create collections in MongoDB
8. How do you link backend with MongoDB
9. Explain early binding & late binding in java & C#
10. Adv. & Disadv. of early & late binding
11. What is inner join & outer join. State their differences
12. Java OOPS concepts
13. Explain Sharding & partitioning in MongoDB
14. Fields/ datatypes supported in MongoDB
15. Why MongoDB over MySQL
16. Explain how u have implemented OOPs concepts in ur project

{CODERS}

### HR round (R3 interview):

1. How are you feeling that u have reached to the last round of ur selection process
2. Introduce yourself
3. Family Background
4. Why IT over Chemical
5. Are u willing to relocate to Mumbai
6. There are a lot many IT companies in Pune (which is nearer to my native place) than Mumbai, then why Mumbai, why not Pune
7. Ur strengths & weakness
8. Past work experience
9. Current journey of CDAC course

10. What I learnt during this period
11. Have u done any research regarding our company (I said yes)
12. Then tell me what u know
13. What are ur long term goals

CRISIL

L1 Round->

Interviewer to me -> share your entire screen.

Introduction

Q .Project and what was your role?

Q .challenges you faced ?

Q .list the errors you faced in project and how you solved it.

Q .what is GetMapping,RestController annotation ?

Q .do you know dto's, did you used it?

Q .you must have used oneToMany relationship in entities.which collection type you used for reference?. ArrayList. Why ArrayList why did you not used hashset?

Q .you were building project remotely right?.then how did you work collaboratively with other team members?

Q .what is interface?. why and when to use interface?. did you used in your project?

Q .Method overloading vs Method overriding.

Q .Write a code to find duplicate elements from an array with their occurrence count.

Q .Write a program which covers major operations involved in hashmap.

Q .what is foreign key in database?. -> explanation with practical example

Q .db question->consider a db table having id & name column.write a query to fetch only even id records/rows.

Q. in which scenario you will use self join explain with example and query.

L2 Round ->

Interviewer to me -> share your entire screen. & Open your Resume(cdac resume).

so you have good marks in java. will see.

Introduction

Q .What is method overriding.

Q .what is static keyword.can we use it at class level ?

Q .so we can have static keyword with class inside another class.then how to call its method?.

Q .how can we use new keyword while creating object of static class since static belongs to class area right?

Q .Can we overload static method ?. Can we override static method ?.No->why ? which type of exception you will get?

Q .why is jvm called virtual machine what does that mean?

Q .how to raise custom Exception & how will you achieve it?

Q .Can abstract class have constructor ? if yes then why?. since we can't instantiate it.

Q .why java is called OOP Language. but it has functional programming support right? then why?

Q .write a program to reverse a string without reverse method?

Q .can you write it using while loop

Q .write a code for hashMap iteration using iterator



Q .DB you used ?. okay

Okay lets talk about your project.

Q .Project flow ,role,tech stack ?

Q .Any critical business logic you wrote in your project? can you explain it?

Q .Did you used batch transaction? any scenario ?

Q .industry practices you have implemented while building project?

-----

interviewer->okay i am done from side .do you have any question?

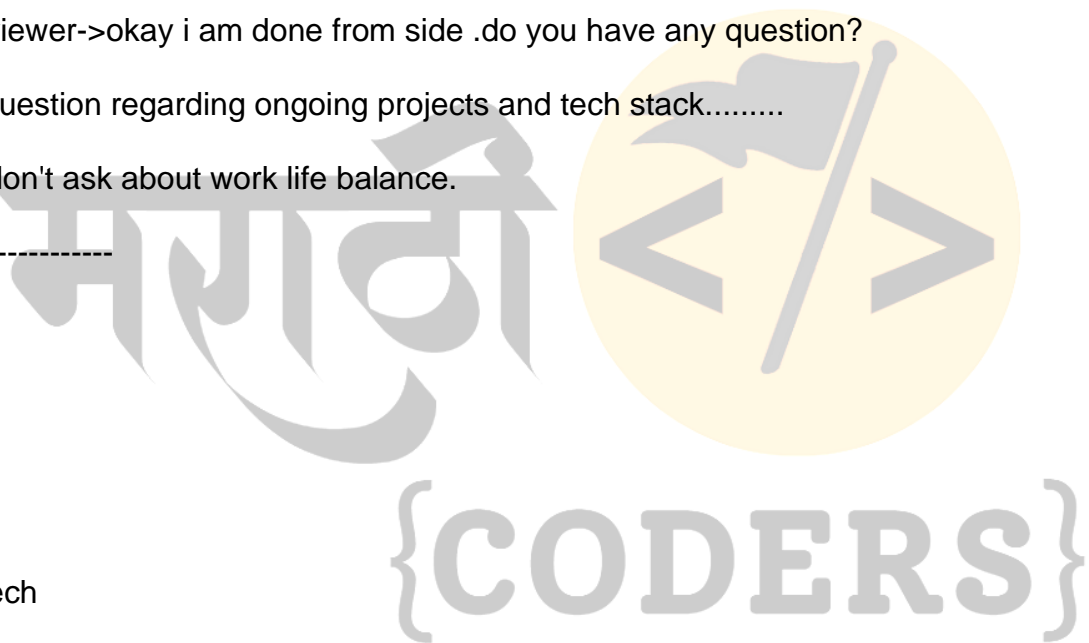
ask question regarding ongoing projects and tech stack.....

tip->don't ask about work life balance.

-----

Kfintech

- 1.Introduction
- 2.abt project
- 3.oops with real life example
- 4.polymorphism in detail
- 5.types of ds
- 6.how will u del node in linked list
- 7.Algorithms u know
- 8.Who is resp for memory management ( .net)
- 9.Triggers
10. Indexing
11. Features of ReactJs
12. Diff between sql and nosql





Knight Fintech

region :Banglore

1st Round is tech MCQ +Aptitude

2nd Round :Technical Interview

- 1.directly asking about ur project module and each module functionality & urs role in ur project
- 2.Flow of your Project
- 3.Data Structure :what is stack,queue,lnked list? Diff between Array and Linked List
- 4.Explain Hashmap in details
- 5.OPPs -Encapsulation and inheritance
- 6.Explain MVC
- 7.what is Router and its type(mla ha question ch smjla nhi )
- 8.types of Data controller?(ha pn smjla nhi)//ntr smjla ki tyani DCL vicharla hota
- 9.interface and abstract difference
- 10.method override and overload in c#
- 11.Rest API vr pn 2 questions hote
- 12.HTTP request,diff of put and post
- 13.diff between View and Partial View
- 14.o/p of one snippet based on delegate
- 15.WAP to find the sum of even no which are present in array?

Kfintech

(8 LPA/Mumbai,Hyderabad,Bhubaneswar,Ahmedabad/Hybrid[WFO+WFH]) interview round by Prayag Monsara :

1. Introduce yourself
2. Tell me about any 2 best projects you worked on which are applicable for this job.
3. How many members were there in your team? What was your part?
4. Did you implement it in docker?
5. So how did this benefit the clinic?(Project is going to be used by a clinic hence sir asked how it will help the clinic)
6. What was the system/process used previously in the clinic?
7. Why do you used Spring boot?
8. Diff between spring and spring boot
9. Why do we use JPA in spring?
10. How did you send data from java to database? Did you use JDBC? and frontend to java?
11. Which dependencies did you used in Pom.xml?
12. How did you connect your backend to database? What methods did you use?

13. Does spring give dependencies automatically?
14. Have you created any project on react? Have you studied react?
15. What is this second project mentioned in your project on GIS?->BE project? What was your role in it?
16. What is react ?why do we use it?
17. Can browser read JSX directly? or do we need to convert it into anything?
18. Can browser read HTML and CSS directly?
19. What is diff between JSX and html?
20. Why do we use MySQL server?
21. Which language is MySQL written in?
22. Write a query to insert foreign key.
23. What is difference between Database and Table?
24. How to swap numbers without storing them in another temp variable.(just tell approach verbally)
25. How much will you rate yourself in Data structure on a scale of 10?
26. Which language are you strong with?
27. Find median of two sorted arrays. Tell me approach first then we will see if we want to go into implementation.  
(Do you know what is median? Do you remember mean, mode, median?)
28. What is time complexity and space complexity of your approach?
29. What is n in time complexity? There are 2 arrays here so will the complexity be  $m+n$ ?
30. If we want to reduce the time complexity and not use another third array to store new array, what approach can we take?
31. Do you have any questions for me?

Kfintech

Kfintech interview round by Prayag Monsara :

1. Introduce yourself
2. Tell me about projects.
3. What was your part in project?
4. What is react ?why do we use it?
5. Can browser read JSX directly? or do we need to convert it into anything?
6. What is diff between JSX and html?
- 7.what is babel.
- 8.difference between virtual dom vs real dom.
9. How much will you rate yourself in Data structure on a scale of 10?

10. which is your favorite data structure.
11. Find median of two sorted arrays.
12. Tell me approach first .
13. (Do you know what is median? Do you remember mean, mode, median?)
14. What is time complexity and space complexity of your approach?
15. time complexity of sorted array?
16. can you make it more efficient.
17. how to add 2 sorted array
18. how see all schema.
19. write query for procedure.
20. why we use trigger .
21. how to remove column from table write command.
22. difference between delete, truncate, drop.
23. explain query with example.
24. sql and mysql difference
25. sql - meaning
26. what is relational database.
27. difference between rdbms & dbms
28. sql is case sensitive or not?
29. benefits of using react.
30. why we use redux.
31. components in react.
32. difference between class component and function component.
33. why we use arrow function.

{CODERS}

Kfintech

1. Introduce urself
2. Some scenario base questions on project
3. What is interface
4. What is diff between abstract class and interface
5. Why we need interface
6. Write a program and show an example of interface
7. All above had to do in c#
8. Doubly linear linklist delete operation code
9. A scenario given and a table and asked to write a self join query
10. What is Asp .net
11. ADO.NET
12. .NET core

13. Configurations
14. What is bundled configuration
15. Who is responsible for memory management in .net
16. Any questions for me

Aragen

Bangalore Region (6+2 lpa)

1. Introduction
2. Talk non stop for 5 minutes about what you learnt in 6 months
3. What is Software Development and phases
4. Explain Flavours of Cloud services (IaaS, SaaS, PaaS)
5. Explain public, private hybrid cloud services
6. Explain automation and manual testing
7. What is git, uses of git
8. .net what is ado.net , options for ado.net
9. What is ORM, how it works
10. SQL vs NonSql
11. Big data
12. 3 example of AI used in Mobile
13. Three layers architecture
14. MVC architecture
15. What in Node, React. uses
16. What is jQuery
17. Sync and async functions
18. What is DevOps

## 19. Difference between microservice and API

Datametica

FirstRound:

Introduce Yourself

Java Features.

Why is java robust?

Streams, functional Interface.

write code to find the frequency of String characters using streams.

same code using collection framework.

Questions related to Hashmap & time complexities.

Types of joins, just explanation of each type.

SecondRound:

What is the motivation to switch from mechanical to IT?

Detail explanation of code which was asked in test & its approach

program to print the characters of string sequentially but its indexes in reversed order.

program to write the binary format of a given number without using inbuilt java API.

SQL query to count the number of events on hourly basis if the timestamp is given in milliseconds.

multi threading.

Applications of queue data structure.

use of queue in BST.

use of oops concepts in your project.

program to implement a queue using an array. dry run for enqueue & dequeue operations.



Nitor

Name =Aman Tekade

Round=L1

- 1.Tell me about my self
  - 2.why u chnge from electrical to it
  - 3.Then go for which technology u studied in cdac
  - 4.Rate ur self in java sql web .net
  - 5.Why not .net
  - 6.Explain oops
  - 7.Why interface write interface n how interface use for achieve multiple inheritance why their is no ambiguity(20min)
  - 8.Polymorphism compile time (tricky que)
  - 9.What is web technologies
  - 10.Normalization
  - 11.If ur developer what is ur next steps
- Lastly do u have any que.

[9:09 pm, 31/10/2022] Bhakti marathi coders: Company Name:- Nitro L1 Round

Name :-Purushottam Shinde

- 1 . Self Introduction
- 2.How many module learns in 6 Month?
- 3.Rate your self in Opps,. net, Java, Database
- 4.What is Webtechnology?
- 5.What is foreign Key?
- 6.Which syntax use in Foreign key?

7.What is polymorphism?

8.How to polymorphism implementing in programming?

9.Explain Project. 4 to 5 question on project.

10.Do you have any Questions?

Name =Onkar mane

Round=L1+L2

1.Tell me about yourself

2.what is your BE Branch

3.why you changing from agriculture to it

3.tell me which technology u studied in cdac , favourite language

4.if given other technology willing to work

5.Oops concepts

6.full depth oops concepts,cross question, programatic examples

7.access specifiers in dot net

8.garbage collection in dot net

9. Java question on string

10.two program first one to print triangle

Second one counting the even odd and prime no

Lastly do u have any que.

Company Name: Nitor Infotech ( 8 lpa)



## Technical Interview

- 1) Introduce yourself
  - 2) Introduce your project, technology used (i said java springboot, react, mysql)
  - 3) Why u go for java and springboot
  - 4) features of springboot
  - 5) What difficulty u faced in project ? How u solved ??
  - 6) have u work on react then rate urself in react
  - 7) use of Hooks? which type of Hooks u know
  - 8) how u pass the multiple data
  - 9) how u passed the data from one class component to another
  - 10) life cycle of react class component
  - 11) do u know about compont did mount, unmount etc.
  - 12) which database u have used in ur project
  - 13) rate urself in mysql
  - 14) diff bet SQL and MySQL
  - 15) 2-3 query based ques
  - 16) rank and dense rank
  - 17) ddl dml dcl tcl commands
  - 18) drop, delete and truncate diff working of each with example
  - 19) oops conepts 4 pillar
  - 20) Abstraction - (approx 15-20 min disscussion)
- Interface

- Abstract class
- Abstract methods

- 21) real time example and one coding example implementation
  - 22) diff runtime polymorphism bet dynamic method dispatch
  - 23) how u achive runtime polymorphism
  - 24) return type and access modifier of overridden method
  - 25) how many access specifier in java (i said access modifiers - 12 and names)
  - 26) use of final modifier
  - 27) use of abstract
  - 28) diff bet arraylist and vector
  - 29) diff bet hashset and treeset
  - 30) which method used for sorting in treeset
  - 31) what is Binary search ? why we use ? when we use ?
  - 32) what is reflection in java
  - 33) instance and local variable
  - 34) super keyword
  - 35) diff bet super and this keyword
  - 36) what is constructor chaining ? how we achieved ? how we call ? when we use ?
  - 37) diff bet StringBuffer and StringBuilder
  - 38) Who is efficient StringBuffer or StringBuilder ? why ?
  - 39) Copy constructor
-

40) 2 codes given for write

1) Reverse the string

2) Print the triangle

code based que approach? why?

Company Name:-Nitor Infotech

L1(Technical GD) Round:

1) 2 codes based on array:

I) There are 3 numbers (from 1000 - 9999).

Rotate first number by 1, Second second number by 2, Third number by 3 (in right direction).

Now in new 3 numbers identify maximum.

Examples:

1.

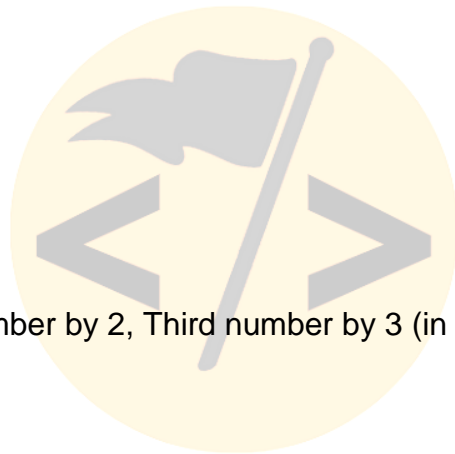
num1 = 2567

num2 = 4298

num3 = 8923

After rotation values will be 7256, 9842, 9238

Maximum in these new values = 9842



{CODERS}

2.

num1 = 1000

num2 = 3000

num3 = 2000

After rotation values will be 0100, 0030, 0002

II) sort the array 101010 so that output will be 000111 without using sort function.

2) what is object?

3) what is garbage collector?

4) explain split and slice function.

5) what is array?

L2 Round:

1) introduction

2) solid principles

3) java is pure object oriented or not? And can we make it?

4) what is wrapper class? types of wrapper classes?

5) Explain Exception hierarchy in java

6) what is checked and unchecked exception?

- 7)can we handle unchecked exception ? and how we can handle it?
- 8)Explain collection hierarchy.
- 9)why we use Hahmap?
- 10)explain internal working of Hahmap?
- 11)what is singleton class? can we create it ? and how we can create it?
- 12)what is garbage collection and by how many ways we can do garbage collection in java?
- 13)Do you have any questions for me?

L3 Round:

- 1)introduction
- 2)why you want to switch into IT? bcz you already have work experince as hardware testing engineer.
- 3)have you done any project? if yes explain your role?
- 4)tell me the react hooks that you have used in your project.
- 5)how you generated the events in react?
- 6)explain IOC.
- 7)features of spring boot.
- 8)how you have done Authentication and Authorization in your project?
- 9)security in your project?
- 10) AS i have 1.5 year old child.He asked me :I can take you but as you have a child then it is difficult to handle the child bcz kids are kids.so how will you manage it?like office and child.

11) Do you have any questions for me ?

Nitor Infotech

Level 1 que

1) write a code

Find the week number of the given date if 1st Jan 2019 has any day between Monday to Sunday and suppose 1st Jan 2019 has Saturday then date 1 and 2 considered 1st week i.e. 2 days in 1st week. Two input one is day on 1st Jan 2019 second is date for which we have to find the week number

You can write the sudo code but actual code is recommended.

=====

Level 2 que

Oops pillar with exam

(Abstraction vs encapsulation how are they different

How they are achieved.

What is wrapper class. Write example and how to access/use in code .

Do you have any que for me.

React que

React vs angular

Why react is faster(ans lies in VirtualDOM concept)

Types of component in react

Asked me to write an example of a class component in chat

=====

level 3 que

How are you doing ?

What is your inspiration?

What r u doing after graduation? Explain year gap

Why switch to IT?

Incident where you show ur leadership?

Tell me about company?

Tell me your Engg Math1 marks don't bluff interviewer has the details with him.

About project...

How you connected the spring boot with database?

Which version of react you used in ur project?

How you retrieve data from database? In my project I used spring data JPA

MYSQL que...

One simple join

Student table, marks table Id common attribute select Id and marks

SOLID principle asked

Coding Que ...

1) Only logic asked

Find the week number of the given date if 1st Jan 2019 has any day between Monday to Sunday and suppose 1st Jan 2019 has Saturday the 1 and 2 date consider them as 1st week

Same que as level 1

2) (abcez , shshd, ghejdjd, abcdzabcd) array is given then find the strings which have 2 or more than 2 continuous letters similar to alphabetical order

=====

Level 4 questions

Walk me through resume

3 things need to improve

Long term short term goal

Final year and cdac project Simple explanation no details asked

Nitore core principles (told by HR) and asked for examples in project for these principles

Nitor Infotech

L1 Round(Group Discussion)

Intro

1 problem given as

Given string array :- [Rohan, Typqrh, Sabcdz, Sameer]

Output :- Typqrh, Sabcdz

Need to print only these 2 names because of pqr and abc are continuous words in alphabet

2 problem



Right rotation on number

(I have no time for type so ask for logic then i cant explain in english and sir not understand me then they say

Mala fakt explanation de

Me manla marathi madhe deu ka sir bolle kashat he de pn explain kr aani me marathi madhe bollo aani clear zalo 😊)

L2 Round(all in english 😊)

1.Intro

2.What is Java Script

3.About java script in brief

4.Data Types in javascript

5.Scope in javascript

6.Diff betn let and var

7.And some java script questions

They say Lets start with react

1. What is react

2. Why we use react

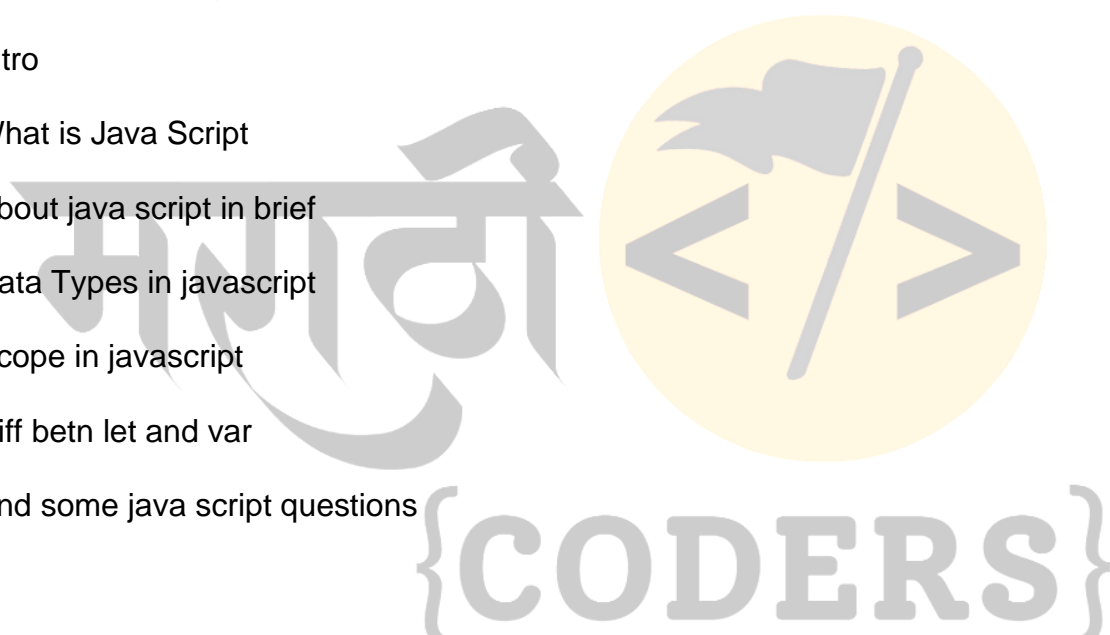
3. What is componant

4. Diff in function & component

5. What is prop

6. What is state

7. Why react is single page



8. aajun kai hote pn lakshat nahit mala te navin hote 😊

## Html

1. Know about html?
2. Different tags in html
3. Html have video tag?
4. Write image tag in chat

## CSS

1. Know about css
2. Types of CSS (inline, external using style tag, using .css file and import)

## Java

1. Know about oops
2. 4 pillars
3. Create inheritance example in chat box of meeting
4. Some basic java question

## Database

1. What is Dbms & Rdbms
2. DDL, DML, DCL operations
3. Diff between drop and truncate

4. Query of find start with p
5. Query of find start or end or in between there is p?
6. Some more in detail

L3 (same sir who take my L1)

Starting with

Sir :- i know u you r in 1 round

Me :- Yes sir

Sir :- so no need of coding u have good knowledge of coding

So talk about project in marathi about frontend & Backend

Round L4 which is HR round

1. Yourself
2. About Family members
3. Why join cdac as u are from mechanical
4. Expected salary
5. Then what is your age(24) so 8LPA is not big amount for u as fresher?
6. About company
7. You have Any questions about company

Nissan Digital India

Questions asked

- 1) Explain overriding vs overloading
- 2) Find the occurrence of each characters in a string
- 3) Explain your project
- 4) Which technologies you have used
- 5) WHY have you chosen Spring boot
- 6) What are the limitations of java when compared to other products in the market
- 7) Why do you want to leave Bangalore and come to Trivendrum
- 8) Are you flexible with other profiles like DevOps, Data engg., Robotic process automation (RPA)
- 9) Why did you choose IT despite having a degree in mech

{CODERS}

Mastercard

TR1:

1. Give a brief introduction about yourself, hobbies, strengths & CDAC project

2.Puzzle1:

There are 3 switches outside the room and only one bulb is inside the room and door is close. how will you identify which switch is connected to the door. only one time we can open the door and check.

3. Puzzel2:

There are 3 Ants sitting at the three different corners of an equilateral triangle. Now each ant randomly picks a direction and starts moving along the edge of the triangle. What is the probability that none of the ants collide with each other?

4: which technologies are used in project?

5. What is collections?

6. Discuss about collection API

7. difference between arrayList and LinkedList

8. Difference between arrayList and StringArray

9. Why springMVC is used in project why not Native java?

10. Why you have used java8 in project?

11. Features of java8

12. How does collection API works?

13. have you use JDBC or any ORM to connect your project with Database?(Ans: Hibernate). the how u connected hibernate with database?

16. what is use used for frontend of project?

17. Tell any scenario where we can use arraylist & scenario for stringlist

18. What is JRE,JDK,JVM

19. What is singleton class? How you can write that?

20. What is serialization?

21. protected access specifier- where it can be use? scope?

22. Difference between Interface and Class

23. Difference between interface and abstract class

24. Hibernate configurations

25. There is patient table(column: patientid, patient name) & address table(columns : addressid, Address). Address are available in address table but it is not visible to patient. write an sql query to find patientname whose address is not visible.

26. java program

array1 =0,1,2,3,4,5,6

array2=0,2,4,6

write a program to find smallest among them

27: which datastructure you will use to find smallest?(Ans: bubble sort)

28: time complexity of bubble sort?

29: Rate yourself between 0 to 5 in writing MySQL query

29: how can you find out which MySQL version is installed on your laptop? command to find out MySQL version?

Company:Mastercard TR1

Name: Nikita Kulkarni

Questions:

1)Introduce yourself.

2)How to prevent overriding in Inheritance.

3)How to prevent a class from extending by another class

4)What is class Variables.

5)What is instance variables.

{CODERS}

- 6)What is difference between static and non-static variables.
- 7)What is compile time exception and run time exception(with examples).
- 8)What is use of Super keyword?
- 9)What is try catch block?
- 10)What is difference between throw and throws clause.
- 11)if we declare a same name variable in super class and child class. Then to which variable precedence will go first?
- 12)What is lambda expression?
- 13)what is difference between comparable and comparator.
- 14)What is chaining?
- 15)What is collections?
- 16)What is spring boot and why it is used?
- 17)Configuration annotation.
- 18)Service annotation.
- 19)how to create an object in simple java and spring boot application?
- 20)What is difference between Array and ArrayList?
- 21) What is Hash Collision.
- 22)How to calculate hash values.
- 23)Are you a team player or individual one?
- 24)rate yourself in java out of 5.
- 25)create a class human and define some fields and methods in that.
- 26)if you have assigned a difficult task in company, what is your approach towards that task?
- 27)Any questions for me?

## Mastercard

### 1st Round-technical

- 1) Introduce Yourself.
- 2) Tell me about your project.
- 3) Explain the OOPS concepts with real life examples.
- 4) What is difference between final, finally and finalize?
- 5) Difference between String, StringBuffer, StringBuilder.
- 6) Given two strings: `String str1="abc"; String str2=new String("abc");`
- 7) How many objects will get created and what exactly happens behind referencing to string pool.
- 8) What is equals() and hashCode() method.
- 9) Difference between equals() and == operator.
- 11) Can we change syntax of main method-`public static void main(String[] args)`
- 12) Why main method is static?
- 13) What is thread? How can we implement it?
- 14) Difference between ArrayList and Linked list.
- 15) Which annotations did you use in your project?
- 16) What is significance of @Autowired annotation?
- 17) Why @RequestMapping annotation is used?
- 18) What is MVC?
- 19) SQL query to find 3rd Maximum salary from employee table.
- 20) Which are the different joins? Explain.



21) Given two tables,given a scenario and asked which join to use for the same.

22) Asked two programs:

Reverse a string

Palindrome (input as int)

2nd Round -Technical+HR

1) Briefly Introduce Yourself.

2) Tell me about your project in detail.

3) You done this project in group.So how members worked on it?

4)On which part you specifically worked?

Explaining that part.

5)Did you use postman while developing your application?

6)So what is get,post,put,delete?

7)Which one is your favourite frontend or backend?(some discussion on same)

8)Given a puzzle:

You have 9 coins which all looks exactly same.In those coins 8 are of the same weight and 1 is lesser in weight than others.You have a old type Taraju.So you have to find out the coin which is less in weight.But you have only two chances to do the same.

9)What are your hobbies?

10)Why you decided to change your field?

More interactive session after that.

Digital Group

What was your project?

// SpringBoot

Why springboot?

Enlist annotations used for project?

explain @component annotation

can we replace @repository annotation by @component?

What is AOP? Can you implement it?

//hibernate

Are you comfortable in hibernate?

Difference between sessionFactory and hibernateSession?

Explain caching in hibernate?

Loading policy in hibernate

//Spring

What is DI?

What are various ways to achieve?

// DBT

What are different types of joins?

What are indexes in databases?

// React

Why react?

Which component you used (FUNCTIONAL OR CLASS)

Tell me different hooks u have used

//Core JAVA

How can we achieve abstraction in java?

Difference between overloading and overriding

Difference between list and set

Why we use hashmap

Underlying datastructure for map

Implementation of hashtable (only explain)

Object classes methods

Why equal and hashCode need to be overridden in hashtable?

What is comparator and comparable?

What is immutable class?? examples? can we create our own

JAVA 8 features

How can we implement threads in java?

How can we achieve thread safety?

volatile keyword???

The Digital group

🔗: -Tell me about yourself

-Project explanation

-what is public static void main

-maths function

-What is difference between array list and linked list

-write a program of inheritance using exception handling

-difference between join and union

-difference between class and structure

-write sql query which will give you 1st five record from table

-what is remoting

-what is reflection

-devops

-Why we use sdlc

-what is unit testing

-which is your fav topic in programming

-what is purpose of API

- MVC

🔗: Dot net

CTS

CLR

What is garbage collection in dot net

The Digital Group

First Aptitude test

Technical Interview

1.introduce yourself

2.Explain Project

3.what are api you have added in your project ?

- 4.what is RestController?
- 5.http methods used?
- 6.put post difference?
- 7.how do you secured api?
- 8.java 8 ?features
9. streams?
- 10.lamda expression
- 11.write a program using lamda expression (java 8 features) find out students from class 12 and having minimum marks?
- 12.String s1="Mayur";  
String s2=new String("Mayur");  
difference between this two?  
s1==s2 output  
s1.equals output
- 13.multithreading ?
- 14.ways of creating thread ?
- 15.invoke method of thread?
- 16.how thread interact between them ?
- 17.wait and sleep difference ?
- 18.object class method ?
- 19.mysql and nosql difference?
- 20.all mysql joins ?
- 21.what is oops;
- 22.explain polymorphism using example in java and real life ?

#### HR Interview

1. Introduction Other than Technical Skills?
- 2.what is food technology?(my B.tech degree)
- 3.explain more about your b.tech degree ?
- 4.subject of b.tech degree?
- 5.family background?
- 6.location ?
- 7.Are you fesible to work in hybrid mode ?
- 8.technolgy flexiblity?flexible to work int UK shift(12 to 9pm) ?

Aragen Life Science

2 technical round

1.Explain what u learned in 6 months of cdac in 5min

2.tell me about personality ..what makes you different from others

3.which language do you prefer java or dotnet

(I said java then all ques were on dotnet)

4.What aspdot net?

5.What is WCF?

6.Have u used rest api in asp dotnet?

7.What are masterpages?

8.What is webfarm and web gardening?

9.Diff between class and interface?

10.Diff between api and microservice

11.What is MSIB?

12.what is razor?

2nd round was a presentation for 10min

Topic- approach for web development using asp dotnet core



Reflexis

Round1:

.....

1. How to achieve encapsulation? how does encapsulation help?
2. How to achieve abstraction?
3. Interface vs abstract class
4. Write mysql query to find maximum salaries according to employee levels.(used group by level)

empld	level	sal
1	level1	20000
2	level2	30000
3	level1	4000

5. In above, also print corresponding empld. Told me the answer:  
SELECT empld, sal from employee e JOIN (SELECT level, salary from employees group by level) as c where e.sal = c.sal AND e.level=c.level
6. Consider an array of n numbers between 0-100. How will you sort them? (Told me to not use pre-existing algorithms)
7. Explain your database of project in DETAIL (10 min on this). (Asked to explain without showing on screen)
8. Java 8 features
9. use stream api to filter employees with salary higher than 10000 in a list and put them into another list.
10. Can we make our own custom checked exception?

Round2:

.....

1. Given two arrays, one array is subset of other. Larger array contains only one extra element. Find the extra element.

```
public static void main(String[] args) {  
    int[] A = {3,6,2,4};  
    int[] B = {6,2,5,4,3};  
    int uniqueElement=0;  
    boolean x= false;  
    for(int i=0; i<B.length; i++){  
        for(int j=0; j< A.length; j++){  
            if(B[i]==A[j]){  
                uniqueElement= 0;  
            }  
        }  
    }  
}
```

```

        break;
    }
    if(j== A.length-1) {
        uniqueElement=B[i];
        System.out.println(uniqueElement);
        x=true;
        break;
    }
    if(x==true) {
        break;
    }
}
}
}

```

2. What is springboot? Write employee rest controller class and write a get method to get a list of employees.
3. throw vs throws
4. what is finally keyword used for?
5. what is try, catch? can we have try without catch? catch without try? finally without catch?
6. can we have multiple try blocks in a method?
7. try{return 10;}catch{return 20;}finally{return 30;} What is returned?
8. Did you use git in your project?
9. Hobbies, family background etc.

Reflexis

Tech interview round :

- Intro
- Reason behind switching career option
- Engineering project details
- Cdac project flow
- Contribution in project
- Hibernate: how it works
- Authentication in project
- How will you make sure that duplicate data will not be stored in your project database
- why springboot
- javascript === and == difference and snippet related to this.

- array vs arraylist
- 2 programs
- sql query. Questions on view

Round 1 : Duration 1hr (All Basic Questions)

1. Introduction, why switch from mech to IT?
2. What is Encapsulation, how data hiding is achieved by it?
3. How you build your project explain from beginning.
4. Why you used mysql? why not Oracle?
5. project sql query- find count of all patients who have subscribed Gold Health Plan
 

```
select count(*)
from patients
group by healthPlan
having healthPlan="Gold"
```
6. How many tables in your project
7. What will you do if you have to insert 1 lakh records (from file) in database from front end
8. Write code for Fibonacci series
9. What is Microservice? what are the advantages?
10. What is AOP?

Round2: Duration 50mins

1. Introduction- family, hobbies
2. Explain project, have you deployed it? how? show and explain dockerfile and dockercompose file
3. How you manage codes if there were 4 members? git commands?

2. What is springboot? what you use from spring boot in your project.
3. throw vs throws what is difference
4. Can we throw NullPointerException
5. What is finally keyword used for?
6. finally without catch? can we write multiple finally blocks?
7. What is final where we can use it?
8. Consider below example

```
public static final List<Emp> empList=new ArrayList<>();
```



can we add records in empList as it is final and you said we cannot change value of final variable?

Ans. Yes we can add elements, since here empList ref is constant and it is initialized with ArrayList<> instance, now this empList cannot refer to other instance of any List as it is final, it can only point to obj of ArrayList with which we have initialized it. But we can add elements in ArrayList as by doing this ArrayList obj will not change.

9. Consider List of Employees as List<Emp> empList having 100 employees, now create new List and add only those employees whose salary is greater than 100 .

```
List<Emp> newEmpList=new ArrayList<>();  
empList.forEach(e->if(e.sal>100) newEmpList.add(e));
```

can you do it using stream?

```
empList.stream().filter(e->e.sal>100).collect(Collectors.toList());
```

10. Given two arrays, one array is subset of other. Larger array contains only one extra element. Find the extra element.

```
public static void main(String[] args) {  
    int[] A = {3,6,2,4};  
    int[] B = {6,2,5,4,3};
```

```
        boolean flag ;  
        for(int i=0;i<B.length;i++)  
        {  
            flag=false;  
            for(int j=0;j<A.length;j++){  
                if(B[i]==A[j]){  
                    flag=true;  
                    break;  
                }  
            }  
        }
```

```
        if(!flag)  
            System.out.println(B[i]);
```

```
}  
  
}  
}
```

11. How will you validate email id in front end ? write regex for it?  
Baki basic questions hote ajun

**\*Reflexis\***

First round

what is your fav module from DAC course?

tell me about oop concepts with real life examples.

Diff between equals method and == operator?

Is multiple inheritance supported in java? how is it dealt with in case of interfaces?

some more questions that I i'm unable to recall

WAP for checking if sum of digits in a number is equal to their multiplication.

WAP to find frequency of characters in a string.

Second round

configuration file related to spring boot? - application.properties

configuration file related to maven? - pom.xml

difference between JPA and hibernate.?

how to populate data in database automatically on spring-boot application startup without crud operations?

unable to recall another 2-3 questions from hibernate/spring boot.

what are javascript classes?

are they similar to java classes?

do we have constructors in js classes?

what are react classes?

what is component? what is class component and functional component

IKS Health

IKS health (6LPA/Mumbai)L1 Technical interview by Ruby Yadav:

### Interview Questions:

1. Introduce yourself
2. Do you know c#?
3. OOPS concept
4. Project, project members
5. What are Aggregate functions in SQL?
6. What are different constraints present in SQL?
7. Types of Joins?
8. Update query syntax
9. There are 2 tables: table 1 named employee having columns- employeeid, employee name;  
Table 2 named Salary having columns- employeeid, salary, designation
  - a) Write a query to get name & salary of employee using join
  - b) Write a query to get sum of salary of all the employee as per their designation (for eg., developer, manager)
10. Write a code to check if the given no. is prime or not.

### IKS L1

#### Intro

brief on project

scenario based questions on project

flow of project

what is role of your in project.....explain in detail

which db you used in proj

oops

what is constructor what is use of it

encapsulation vs abstraction

how you will achieve encapsulation and abstraction

how you write interface and if I want use interface with class how to write

2 queries

1 prog on reverse a number

how to update a row in table write query

how to delete a row in table which command is used for it

are you comfortable to learn new technology ..... what is your approach to learn thing

have you any que for me ?

### IKS Health Interview:

- 1) Sql query for second highest salary of employee.

- 2)Code to write Find Array duplicate element.
- 3) Code to write find consecutive array duplicate element.
- 4)Code for find factorial of number.
- 5)What is the use of Object

Finflux

M2P

(12 LPA/Chennai,Bangalore/WFO) L1 interview round by Some Java developer having 11+ years experience

on Intervue.io platform(External interviewer) :

1)Intro

2)What did you learn throughout your course curriculum

3)OOPS concepts

4)Write a code to iterate any collection using java iterator

5)In which package collection is located?

6)What is iteration basically?

7)Types of iteration

8)What is multithreading?

9) Create list,map,set collections and iterate them

10)how will you iterate map collection without iterator?

11)Any questions for me?

Company Name: IKS

- Round 1: Technical (Nikhil Waghmare)

1 Introduction

2 Project Introduction flow

3 Rating on knowledge you get in programming language, MVC , SQL

4 Which one is comfortable Java or .net

5 Pillars of opps n implementation in project

6 Questions on react- why to implement? How to?

7 Different annotations

8 Annotations used in project

9 Static keywords- many questions on implementation

10 Use of virtual

11 Explain MVC

12 Explain controllers

13 Questions on SQL server

14 Triggers

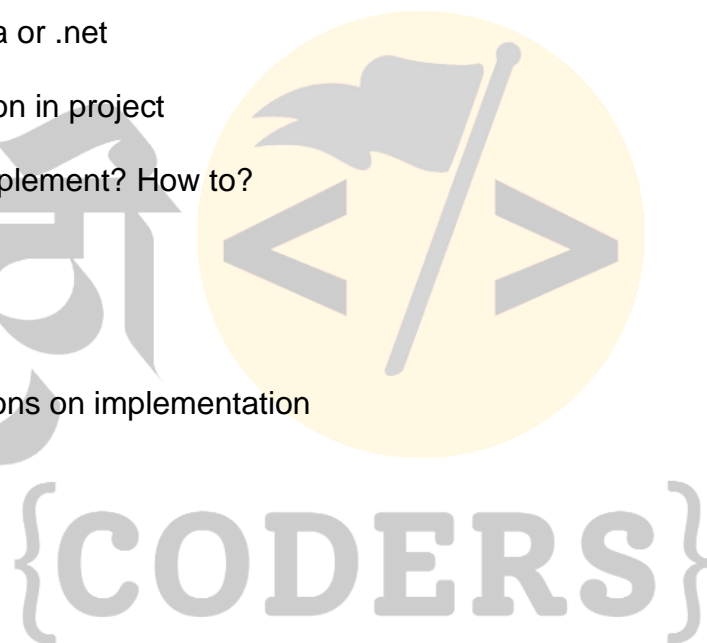
15 View

16 Stored procedure

17 Annotations

18 Constraints all n explain

19 How to manipulate data in view



20 Clauses order

- Round 2: Manager Round (Pankaj Ojha)

1 Introduction

2 Explain anything that you have not in your technical round

3 Opps pillars- implementation in project

4 Questions on abstract class n methods

5 Virtual keyword

6 Data structure -

7 Stack vs Array

8 practical implementation of Linkedlist

9 Methods of collection

10 Coding-

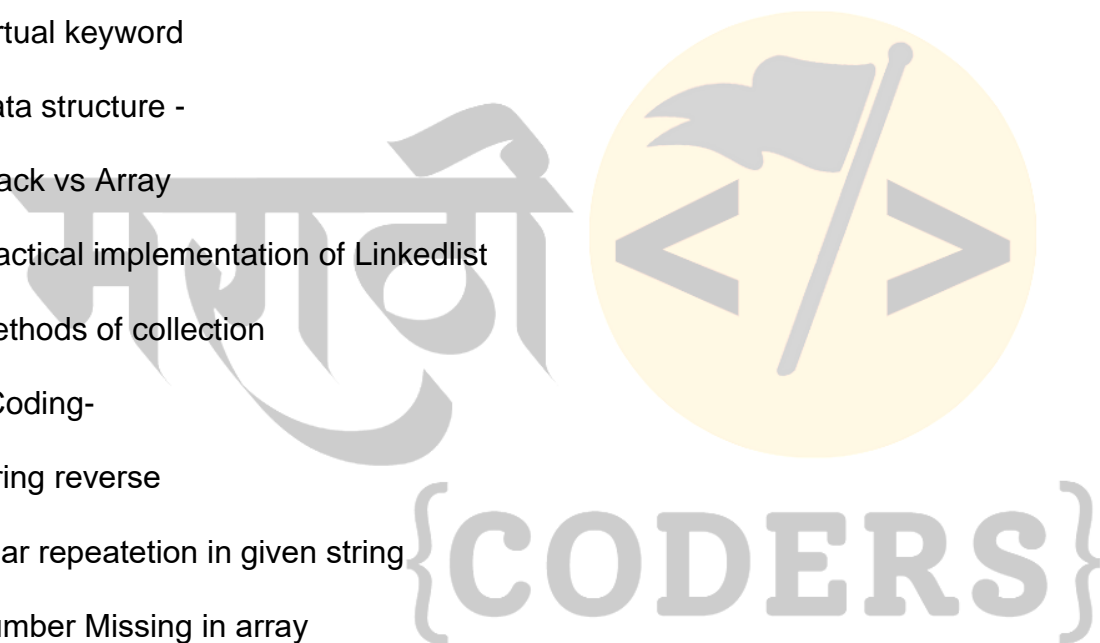
- string reverse
- char repeatetion in given string
- number Missing in array

11 any other way to solve above which is different than yours

Motifworks

Are SQL ani java vr hote

SQL chya query hotya



Ani tyanche customized tables hote ty a vr query karun dyaycha hotya

Mostly project madhe konte tables use kele ahet ty a vr

Like group by ani Sub query vr jast house hota

Like i++ chya jagi i-- kele tr ky hoil program madhe hya type

Thode ds che ques

Ani thode changes kele tr ky answer yeil ase

Ani HR che ques

Java madhe pattern wala program hota

Introduction , why mechanical to it

4 Round hote

4th round la gela mhanaje mostly fix aste

Director yeto to gappa marto ani basic que vicharto

3 imp last wala tp asto

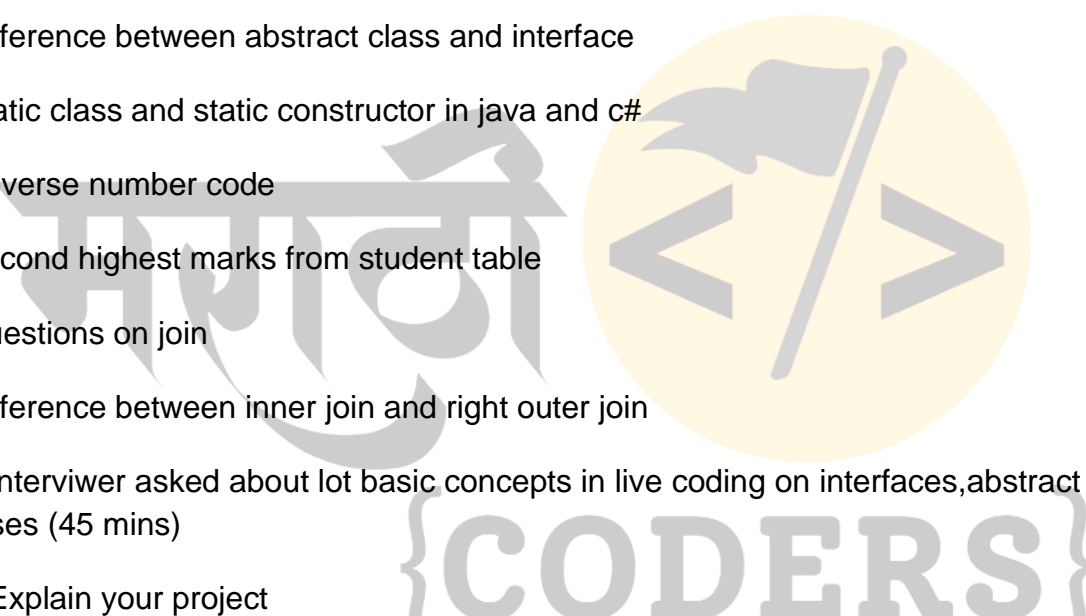
Happy Moment konta , frustrating moment konta hya type madhe

-----

Rayden Interactive

Level 1 Technical IV (1.30 hr)

Name: Akshay Bacchav

- 1) Explain in brief pillars of oops
  - 2) Write down program for polymorphism
  - 3) Write code for multiple inheritance
  - 3) Some deep questions on interface, multiple inheritance, diamond problem
  - 4) Difference between abstract class and interface
  - 5) Static class and static constructor in java and c#
  - 6) Reverse number code
  - 7) Second highest marks from student table
  - 8) Questions on join
  - 9) Difference between inner join and right outer join
  - 10) Interviewer asked about lot basic concepts in live coding on interfaces, abstract classes (45 mins)
  - 11) Explain your project
- 

John Deere

1. Write controller
2. Abstract vs interface  
Interface without any method
3. How we can handle runtime exception
4. Is there any way to finally block not executed



5. What is spring
6. What is dependency injection
7. Wrote one code and lot of changes in that code what will happen
8. Write code about interface and abstract class
9. Abstract keyword static keyword
10. How to write array in java
11. How many primitive data types
12. What is wrapper class
13. Is their any way to use primitive types in collection class
14. What is collection class
15. What is database
16. One sql query

**\*\*John deere\*\***

Let's say you have a list of objects that have employee info like name, age, department, salary etc. Tell me how would you find the youngest employee from that list using streams APIs.

Suppose you have 3 database tables. Employee(id, name, age, salary), Department(id, dept\_name), DeptEmp(empld, deptId)

Write a query to find youngest employee from marketing department.

basic questions like polymorphism and try catch block etc

HSBC

tech. Round\*

- 1)Introduction
- 2)OOPS
- 3)polymorphism details with implantation.
- 4)collection hiracracy.
- 5)list and set difference.
- 6)implementation of array list.
- 7)sql basic query.

8)java 8 features used in your project.

9)flow of your projects

10) tables in your project.

11) CSS how to apply.

Etc.

1) oops concepts

2) exception and give me brief info about it

3) write code of thread exception using both techniques

4) write code for triangle numbers

5) explain polymorphism then he gave me scenario of family and ask me to do code which have

polymorphism conepts overriding and overloading

6) then he asked me about collections and ask me interface's unique property ex.set list etc ....

7) then annotation and layerd architecture of project

8) we used jwt token so he ask about encryption and decryption process

9) hibernate connection with spring boot without springboot



{CODERS}

10) database basic query of employee class ask about joins

XPO

India shared Services LLP (.Net developer/Powai,Mumbai/work from office/7.22 LPA)

L1 interview Questions by Piyush durwar and singh:

1. self intro
2. What have you learned in cdac till now?
3. Difference between inheritance in java and .net?
4. What is inheritance?
5. What is polymorphism?
6. What is generic class concept? Why we use it?
7. Copy paste the snippet in chat in notepad and explain me what is this code about?

```
using Newtonsoft.Json;
```

```
using System.Text;
```

```
namespace Utilities
```

```
{
```

```
    public static class SerializerExtensions
```

```
    {
```

```
        public static byte[] Serialize<T>(this T data)
```

```
        {
```

```

var JsonSerializerSettings = new JsonSerializerSettings
{
    NullValueHandling = NullValueHandling.Ignore,
};

return Encoding.UTF8.GetBytes(JsonConvert.SerializeObject(data,
jsonSerializerSettings));
}

public static T Deserialize<T>(this byte[] data)
{
    return JsonConvert.DeserializeObject<T>(Encoding.UTF8.GetString(data));
}
}

```

8. What is this, T, data in the argument?
9. Do you know about Extension classes?
10. What is meant by API? Why do we use it?
11. How did you send data from frontend to backend?
12. Which are the action methods you have used in you project?
13. If i change keep all the logic ,code same but change the handler mapping name like instead of delete i write put mapping will the code work?
14. What is diff between myaql and no sql?
15. What is use of Cursor?If we want to iterate,is there any other option than cursor available?
16. What is meant by candidate key?

16. Have you ever used any other os other than windows?
17. Diff between Windows os and linux os? Why Linux is used?
18. What project have you done? What was your role in it?
19. So can you tell me what is JWT token?How will it increase or help in security of our application?
20. Any questions for me?

Smartstream

(7 LPA/Andheri,Mumbai/Work from office/ Quality Assurance):

L1 interview by Arun Batra,Pooja Mayekar:

1. Intro
2. What did you learn in CDAC?
3. What did you learn is SDM?
4. Which are different models for product design?
5. What is difference between waterfall and Agile model?
6. What to you know about testing?
7. Write a code to reverse string of your name.
8. Write a code to find out minimum and maximum element in the given array :  
[10,5,25,15,20]
9. So which database have you worked on in your project?
10. What is Primary key? Foreign key?Why do we use it?
11. Which database queries have you worked on?Gave 2-3 queries on join.
12. Any questions for us?

L2 interview by Arun Batra,Ritesh Poddar+1:

1. Intro
2. Which questions were asked in L1?

3. what is join?
4. Gave 4 different queries on self join,outer join,inner join,count,sum of salaries as per designation,group by.
5. Difference between joins them with examples.
6. What is SDLC?
7. What do you know about automated testing? Why do we use it?
8. What are the types of different testing?
9. Which frameworks do you know for testing?What have you learnt about testing in CDAC?
10. How will you report a bug in an application practically?Tell me steps.
11. What is selenium?What do you know about it?
12. Disadvantages of Agile model.
13. Do you like puzzles?Do you like chocolates?  
If you can buy 3 chocolates in 1 rupees,and if you return 3 wrappers you get 1 chocolate.  
Suppose you have 9 rupees,tell me how many chocolates can you buy in total?
14. Any questions for us about your profile,job?

HR interview by Sir:

1. Intro
2. Cdac project
3. Why engineering in civil?Are you still preparing for government job?
4. Why CDAC and not any other course?
5. Are you clear on what profile you will be working on? Explain it to me.
6. What do you know about our company?
7. Where are you staying currently?Born and brought up there only?East or west?Distance from railway station?
8. Which branch of CDAC have you done your DAC course from?Why this college?
9. What is your family background?Do you have any relatives in Pune?
10. Are you thinking about going for higher education after this?
11. Will you be comfortable working from office and travelling daily? You prefer to work online or offline?
12. Any questions for me?

Company Name=Nitor

Name =Aman Tekade

Round=L2

- 1.Tell me about my self

- 2.why u chnge from electrical to it
  - 3.Then go for which technology u studied in cdac
  - 4.Rate ur self in java sql web .net
  - 5.Why not .net
  - 6.Explain oops
  - 7.Why interface write interface n how interface use for achieve multiple inheritance why their is no ambiguity(20min)
  - 8.Polymorphism compile time (tricky que)
  - 9.What is web technologies
  - 10.Normalization
  - 11.If ur developer what is ur next steps
- Lastly do u have any que

## BHTC

### HR Discussion

1. How are you?
2. Where you from?
3. Are you staying at home?
4. How many members in family
5. How will you manage to come in pune.
6. Why BHTC
7. What is process of CDAC for student who got placed
8. How your day is going
9. Have you attended any interview
10. How you manage to score top in our exam you are the first ranker in exam
11. What is strength and weakness
12. Tell me about your projects in academic
13. If you got selected what is your plan.
14. Any questions for me

Their are new techno in our company are you happy to work on it

## Digital Group

Technical IV Questions: -----

--

- 1) Introduce Yourself ?(Introduced myself and told the title of Cdac project..)
- 2) Tell about your project?
- 3) What is OOPs?

- 4) What are Procedural Language?
- 5) Have you used any procedural language in the database? =>I was not having any idea, i was confused but she hinted me of Stored procedures, so i said i have idea of Stored procedures, Cursors, Triggers.
- 6)What are Cursors, Triggers and Stored Procedures?
- 7)Logic to swap two numbers without using a third variable(on notepad)?
- 8)Explain final, finally, finalize?
- 9)Explain about throw, throws ?
- 10)What is MultiThreading?
- 11)Explain via code(on notepad) how you do multithreading? =>in the code created a thread object by extending from thread class, called the start(),... She then asked if there is any other method as well? Told her about how we create threads from Runnable interface.
- 12)Write a query to remove the duplicate rows of data from employee table?(on Notepad)
- 13)Write a query to find the second highest salary from the employees table?(on Notepad)
- 14)Do you have idea of LMS(Leave Management System)? =>i said No.
- 15)How will you compare two Strings?
- 16)Explain the difference between == and equals()?
- 17)What is the difference between StringBuffer and StringBuilder?
- 18)What is the difference between String and StringBuffer or StringBuilder?
- 19)what is immutability in String? Explain?
- 20)What is the use of super keyword?
- 21)What is SpringBoot? Why you used SpringBoot for your project?
- 22)How much will you rate yourself out of 10 for FrontEnd, BackEnd and Database?
- 23)Do you have any idea of python?
- 24)Have you deployed your project? if yes where?
- 25)Have you used Git? How do you merge your branch into the master branch?

#### HR IV Questions -----

- 1)Introduce Yourself.
- 2)Why are you thinking of shifting from Mechanical to IT industry?
- 3)What are your Strengths?
- 4)Being a TeamPlayer is your strength. Can you please explain how?
- 5)Are you an Extrovert or an Introvert?
- 6)If you are stuck in a problem at workplace, so what would be your approach to resolve the problem?
- 7)Why you chosed Digital Group?
- 8)What is your expectation of salary, we are working in Hybrid mode are you OK for that, any questions if i had?



HSBC

tech. Round\*

1)Introduction

2)OOPS

3)polymorphism details with implantation.

4)collection hiracracy.

5)list and set difference.

6)implementation of array list.

7)sql basic query.

8)java 8 features used in your project.

9)flow of your projects

10) tables in your project.

11) CSS how to apply.

Etc.

1) oops concepts

2) exception and give me brief info about it

3) write code of thread exception using both techniques

4) write code for triangle numbers

5) explain polymorphism then he gave me scenario of family and ask me to do code which have

polymorphism concepts overriding and overloading

6) then he asked me about collections and ask me interface's unique property ex.set list etc ....

7) then annotation and layered architecture of project

8) we used jwt token so he ask about encryption and decryption process

9) hibernate connection with spring boot without spring boot

10) database basic query of employee class ask about joins

XPO India shared Services LLP

(.Net deveoper/Powai,Mumbai/work from office/7.22 LPA)

L1 interview Questions by Piyush durwar and singh:

1. self intro

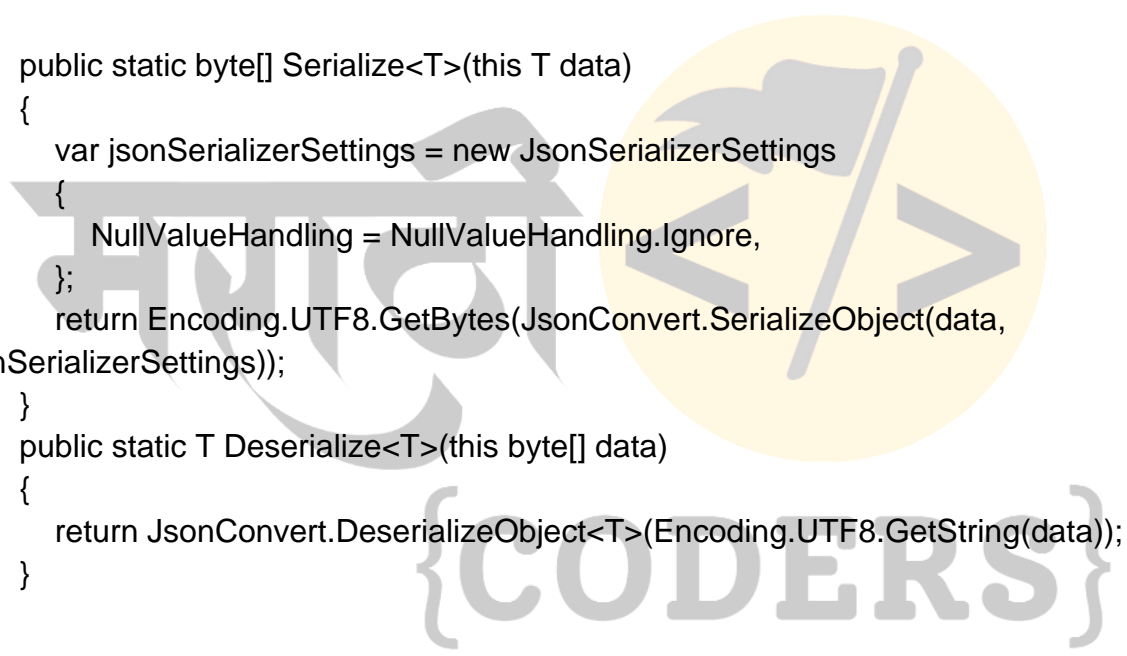
2. What have you learned in cdac till now?
3. Difference between inheritance in java and .net?
4. What is inheritance?
5. What is polymorphism?
6. What is generic class concept? Why we use it?
7. Copy paste the snippet in chat in notepad and explain me what is this code about?

using Newtonsoft.Json;

using System.Text;

namespace Utilities

```
{  
    public static class SerializerExtensions  
    {  
        public static byte[] Serialize<T>(this T data)  
        {  
            var jsonSerializerSettings = new JsonSerializerSettings  
            {  
                NullValueHandling = NullValueHandling.Ignore,  
            };  
            return Encoding.UTF8.GetBytes(JsonConvert.SerializeObject(data,  
jsonSerializerSettings));  
        }  
        public static T Deserialize<T>(this byte[] data)  
        {  
            return JsonConvert.DeserializeObject<T>(Encoding.UTF8.GetString(data));  
        }  
    }  
}
```



8. What is this, T, data in the argument?
9. Do you know about Extension classes?
10. What is meant by API? Why do we use it?
11. How did you send data from frontend to backend?
12. Which are the action methods you have used in your project?
13. If I change keep all the logic, code same but change the handler mapping name like instead of delete I write put mapping will the code work?
14. What is diff between mySQL and noSQL?
15. What is use of Cursor? If we want to iterate, is there any other option than cursor available?
16. What is meant by candidate key?

16. Have you ever used any other os other than windows?
17. Diff between Windows os and linux os? Why Linux is used?
18. What project have you done? What was your role in it?
19. So can you tell me what is JWT token?How will it increase or help in security of our application?
20. Any questions for me?



## Motifworks india private Ltd Questions

Motifworks India private Ltd.

1<sup>st</sup> Round.

Introduce yourself, About project, solid principle.  
What is RBMS and Non RBMS, when to choose which one, which is faster and why. output data is in which form.  
How does any server works like Tomcat or mysql,  
can we run tomcat server on mysql or vice versa.  
How ~~has~~ does the server identifies the IP and choose whether to use global server or local server, how does it works  
how www.google.com is mapped - how u get output.  
what is serialization.

2<sup>nd</sup> Round

Introduce yourself, about project and your comfort zone.

Question on ~~what~~ servlet, what is its lifecycle.

Have you created any java project, ? then how you have connected to database.

2- codes ① for a number print all num<sup>in</sup> decreasing order with diff of 2 till 0. eg  $5 \rightarrow 5 \ 3 \ 1 \ 0$   
 $6 \rightarrow 6 \ 4 \ 2 \ 0$ .

② for ~~list~~ <sup>singly linked</sup> you are given a node how you can delete it without root.

What are different types of data structure available, explain all which one to choose when an some condition.

Any question for me?

3<sup>rd</sup> Round.

① Introduce yourself, question on past exp, last drawn sat...  
proudest moment of your life.

3 most important lessons of your life, what you regret most, what are your expectation from us.

Tech Mahindra

Technical Round 1

1. Introduce yourself
2. which is your favourite language? (Java)
3. what is function overloading & function overriding?
4. Type of overloading
5. Type of inheritance
6. how to implement multiple inheritance?(Not possible in java)
7. Any other way to implement multiple inheritance
8. which keyword is use to implement interface
9. difference between final and finalize
10. MySQL query

There is one employee table (columns: empid, name,managerid) list employee under each manager

11. you are from electronics the why are you shifting to Advance computing? any specific reason
12. Any question for interviewer

IKS Health

Project flow?role?challenges?how did u overcome it

What are Software development components

Delegate

Indexing

Normalization

Write code of linkedlist data structure

Features of .net

Why we do Normalization

Any questions

IKS Health

- 1.Introduce yourself .
- 2.Explain project in detail (flow of project) ?
- 3.Why you choose this (project) topic ?
- 4.Which technologies is used in project & why ?
- 5.How you do user management in project ?
- 6.How you handled data getting from user ?
- 7.What is object ,class ?

- 8.Explain Oops concepts with example.
- 9.Write code of odd & even number .
- 10.Write code to sort array elements using bubble sort.
- 11.Write code to find maximum and minimum occurring character in a string.
- 12.What is SQL & explain SQL statements ?
- 13.What is Functional dependency ?
14. What is primary key & composite key ?
15. Differentiate between delete, truncate & drop commands.

IKS Health

project deep question ....

what is store procedure ?

explain store procedure exception handling.

how u defined function inside procedure ?

can you use join clause in function?

they can show 2 tables?write query for left join right join.

what is API?

what is restApi?

write a trigger.

what is OLAP in denormalization?what approach for query?

IKS Health

1.introduce yourself, your professional skills

2.sql command to find second largest salary

3. Code to find duplicate array elements

4.what are objects in java?

IKS Health

Name- Lokesh Bhaskar

1) tell me about yourself

2) explain project in deep

3) explain your second project

4) which logic you used in that,validation

5) are you comfortable with Dotnet

6) Define session

- 7) Define MVC
- 8) define drop , delete, truncate( How to use it)
- 9) gave table and used the above query
- 10) what is stored procedure
- 11) explain query for stored procedure
- 12) query to find department wise salary
- 13) define primary key ,unique key ,composite key ,foreign key

Adenza

Name- Lokesh Bhaskar

- 1) puzzle 8 balls same weigh and 1 ball differnt weigh
- 2) tell me about yourself
- 3) explain project in deep
- 4) difference between linkedlist and vector
- 5) explain oops concept
- 6) write program to find prime numbers between 1 to 100

SmartStream

Name: Nikita Kulkarni

Questions:

- 1)Why java is platform independent?
- 2)what is difference between instance variable and local variable?
- 3)Method overriding
- 4)What is encapsulation?
- 5)Program for find min max from array.
- 6)10+20+"30"?
- 7)"30"+10+20?
- 8)"30"+20\*30?
- 9)some java code. Identify the output
- 10)2 aptitude questions.
- 11)Any questions for me.

RXO Logistics

Introduce urself

- 1.what is API
- 2.applications of API



- 3.Incremitation
- 4.oops concepts
- 5.what is polymorphism
- 6.what is Abstraction
- 7.what is your role in project
- 8.what is composite key
- 9.what is compile time and runtime polymorphism
- 10.diff in working on windows and linux

#### RXO Logistics

1. Intro
2. Project details
3. What is API
4. How you developed API in your project
5. Which mapping is used for updating ?
6. How to achieved OOPS concepts in your project .
7. Real time Examples
8. What is collection classes?
9. What is arraylist and linkedlist?
- 10.Why we use Interface ?
- 11.How achieve inheritance ?
- 12.What is overriding ?
- 13.What is diff between myaql and no sql?
- 14.What is use of Cursor ?
- 15.Diff between Windows os and linux os ?
- 16.Code on string reverse ?
- 17.One snippet from C# inheritance ?
- 18.How typecasting is used to call parent method ?

#### RXO Logistics

L1 round

Name- Lokesh Bhaskar

- 1) Introduction
- 2) project Details
- 3) what is API



- 4) how would you use API in your project
- 5) difference between sql and Nosql
- 6) what is garbage collection
- 7) what is inheritance
- 8) inheritance difference in java and dotnet
- 9) write clean code from your project(from React)
- 10) what is more important latency or response while executing the code
- 11) how would you approach to learn new things(for python)
- 12) remove all occurrences of a given character from input String

Adenza

Name:Revathy.R

- 1.Brief intro
- 2.What are abstract classes
- 3.Program for fibinocci series
- 4.Program to reverse a string
- 5.diff between hashmap() and arrays?
- 6.what are the difficulties you faced in project?
- 7.program to reverse string
- 8.What is inheritance in java? how you achieve it exaplin with an eg?
- 10.how should we hire you?
11. are you able to relocate?
- 12.Difference between array and hash map?
- 13.Diff between length and size method in array?
- 14.What is software testing?

société générale

Intro

Explain HashMap

HashMap program

What is REST API ?

Explain project flow in deatils

@RestController vs @Controller

Explain all annotation from your project

OOPS concept

Abstraction Vs Encapsulation

Do you have any question for me

HSBC

.introduction

.oops concept with example

.String

.sql query

.join

.Project and Roll

.Comparable vs Comparator

.HashMap

.Exception handling And need of exception handling

.Synchronization

.String vs StringBuffer

.use of Stringpool

. == vs .equals()

.aggregation

.comparable vs comparator

.method hiding

.final vs finally

.super vs this

.jsx

.try catch block

.truncate vs delete

//80% core java + 20% other //

HSBC

1. Introduce Yourself quickly.

2. What is your fav language? why?

3. What is sql? example?

4. Some basic 2,3 sql queries?

5. What is class?

6. Inheritance?
7. Is there diamond problem in java ? why?
8. OOPS concept
9. Encapsulation
10. have u heard of production support?
11. Some condition based questions- willing to change the tech you are working on?  
(aur ek-doon same ques)
12. Some puzzles.

HSBC

Introduce yourself quickly

1. try catch block
2. truncate vs delete
3. dynamic poly
4. static poly
5. final vs finally
6. finalize method
7. exception types and explanation
8. try catch finally
9. can we write finally before catch
10. Abstract method and interface in detail
11. Aggregate function sql query
12. natural join query
13. group by clause query
14. do u have any questions.



HSBC

Duration: 25mins

- 1) Explain Project
- 2) real life problems given by them to be applied in project,
- 3) OOPS concepts

HSBC

Intro.

About CDAC journey.

Deep project details.

Equals and hashCode methods.

Implementation of equals method.(asked to write code).

How to convert java class to db entity.

Controller implementation (related with project).

How to write custom query in JpaRepository implementation class.

Various annotations used in project.

Given a url and asked about mapping.

Sql query about join.

#### HSBC Questions

- 1.Intro
- 2.Project details
- 3.Rate yourself in database
- 4.Do you know about cloud computing?
- 5.Do you know about python?
- 6.What is DDL and DML?
- 7.Difference between Truncate and Delete?
- 9.Write query for 5th highest salary from employee table  
Can we write it with using aggregate function.
- 10.Union and Union All?
- 11.Types of Joins?
- 12.Types of Outer Join?
- 13.Given two table and asked which join will you use to get same values from table(Write query for it)
- 14.Given a table what u will use to get distinct value from table without using distinct keyword?
- 15.What is Encapsulation?
- 16.Do you know linux?

- 17.Linux Commands?
- 18.what chmod 555 and chmod 777 do?
- 19.Any questions?
- 20.Which institute you are from

Kfintech

(Abhijeet Pal)

1. Tell me about yourself.
2. What is polymorphism? explain it without using technical terms. (by giving analogy)
3. What is difference between abstraction and polymorphism.
4. Code on sorting a string.
5. Create a DropDown component in react.
6. What is JDBC? What is thin client , thick client ? What is ODBC?
7. What is group by clause?
8. What is difference between inner join and outer join.

John Deere

Name:Aboli Jadhav.

Questions:

- 1)Tell me about Yourself
- 2)ask to explain projects i did in my gradution and post graduation(asked bz both projects are web based application)
- 3)Expain cdac Project
- 4)Explain API used in Your Project
- 5)Annotaion used in project
- 6)difference btn Spring ,SpringBuffer,SpringBuilder.
- 7)if we have str1="abc" we want to modify it to "abcde" how you can do that?
- 8)Hierarchy of exception in java
- 9)Exception --types of Exceptions(they give one example)

```
try{  
num=num/0;  
}  
catch{Exception e}  
catch {ArithmeticEx e}
```

`catch{DividebyzeroEx e}....`

is this sequence is valid or not if not explain why

10)diff btn abstract class nd Interface with example

11)can we make abstract class as final?

12) program ---find out duplicates string and remove

13)program----check given string is palindrome or not

14)Explain primary key and foreign key

15)Joins in sql

16)Give student table ...write query to find student who have 2nd highest marks

(i did using limit nd subquery )...if data is not in a proper order what changes you will do in your query.

17)Features of Spring framework

John Deere

1. Introduce yourself

2. What are OOP pillars

3. What is polymorphism

4. What is exception, how to handle ot

5. Diff between Comparable and Comparator interface

6. Features introduced in Java 8

7. What is Stream

8. Consider a class Employee with field is,name,gender,salary, department

Consider you have an aarraylist of employees

a. Write code to get sum of salary of all employees using stream

b. Write code to get average of salary of all employees using stream

c. Write code to get a list of all male employee working in "Product" department using Stream

9. Consider two table employee and department with employees having column

name,empid,salary,deptid and department table with column deptid,deptname

Write an SQL statement to get highest salary of employees working in "Product" department (using join)

10. Technology used in project. Description of project

11. What is spring

12. Type of cache in Spring

13. Spring annotations and class used in project

KFintech

- 1) Tell me about yourself?
- 2) What is the use of OOPs?
- 3) Asked about sorting algorithm and their complexities and which is the best sorting algorithm?
- 4) Then he gave a real time scenario  
Suppose there is metro construction going on, for making the flyover we need pillars, pillars are of unequal height and weight I have to sort all the pillars with less than  $n \log n$  complexity how can we achieve it?
- 5) There is an array having  $n$  numbers of 0 and 1, we have to shift all the 0 to the left side of the array and achieve time complexity  $O(n)$ ;
- 6) What will happen to select query with lock and without lock?
- 7) What is virtual keyword?
- 8) What is dynamic polymorphism?
- 9) Whenever any user uses linux prompt we have to keep record of all the processes done by that user in one file?
- 10) Asked about my BE and CDAC project
- 11) Do you know R and python programming?
- 12) Why mech to IT?
- 13) What are your hobbies?

Sigma optima pvt ltd.

1. Introduction
2. Explain project
3. What was your role in project?
4. What is abstraction? 5. How can you implement abstraction and encapsulation in any banking app? After I explained he asked to tell how polymorphism can be implemented here?

6. What is .net framework?
7. What is ado.net ?
8. Can you write connection string of ado.net?
9. What is asp.net MVC and Explain request life cycle?
10. What is disposable and IDisposable?
11. How can you check null value ? Is there any method to check?
12. Do you know static class? Can static class have constructors(c#)?  
Can abstract class have constructors? If yes why it is so?
13. Write SQL for max 2 Max salary? I solved with limit  
Can you do it with another way? I used window function `dense_rank() over()`

Then they share table having date column n asked me to find experience by using this joining date.

I told them here we will need to use function but could not remember name. He said it's fine u can google any time .

15.Then i asked about feedback.

He told me everything was fine n in case of SQL query it is not expected to remember function name. But u know we can use function here n thats fine!!!

Cybage

Name-Sagar Pati

Panel-Rishikeah khodke

first they asked about introduction then asked various types of question on project.

- 1.What is the difference between abstraction and encapsulation
- 2.what is abstract and interface
- 3.what is the use of static method
- 4.what is the static keyword
- 5.why we made method or variables as static
- 6.what is the multiple inheritance
- 7.Type of inheritance
- 8.how to achieve multiple inheritance using abstract classes
- 9.what is the polymorphism
- 10.what is the exception handling
- 11.difference between checked and unchecked exception
- 12.java program of prime number
- 13.what is normalization.
- 14.which type of normalization you used in your project tables.
- 15.What is the different types of normalization.
- 16 two table are given Employee and Salary.In Employee table there is employee\_id,employee\_name,employee\_company.  
And in Salary Table there is employee\_id and salary present.I want employee name with Salary which is second highest salary.  
Write the query for it without using limit.

**Ganesh Aware**



L1:

1.Introduction

asked about project why you choose android for project

2.Last organization working..

3.Java oops feature

4.Inheritance explain with example

5.You already working on website then how you resolve clients issue and debug?

6.String reversal program

7.Palindrome program

8.removed duplicate char from string

9.Do you know about 404 error

10.Diff abstract vs interface

11.used of interface

Database questions:

which databases have you used :

11.What is inner join right query in chat box

12.Truncate command used

13. He given two table employ and department and said open MySQL workbench  
given almost 6 query ...

1. first insert both table record

1.One is self join query but my syntax was wrong unable tackle but he said no  
problem

2.find record given some condition

3.Second is group wise show the count

4 delete record given condition,

5.find name using like

6. update record given condition range of salary in between using:

14. rate yourself in Linux knowledge

15. asked about testing question

15. Linux command which you practice in lab

16 do you have any question

L2:

given puzzle:

we have one requirement for check iPhone quality of body material

so there is one 10th floor building and you need check the quality of iPhone by drop the iPhone from floor  
how many iPhone you need ..

next:

Suppose there is a building with n floors, if we have unlimited iPhone, then how can we find the minimum number of drops needed to find a iPhone to break;

asking about some question regarding os ,kernel types

primary key vs unique key

given two table emp, dept and given following query

Write a SQL statement to list all department names along with location and also manager name if a manager has been assigned to the department.

can you please tell me difference TCP and UDP

what is used of smtp

your last org.. salary

do have any question for me ?

L3

manager round:

introduction

why you choose CDAC reason for that

i have some experience in website design ask general question regarding

general question on family background

my mom working in police dept so he said why you not try in police dept its government job

Any question

END !!!

Cybage questions asked

- 1.Introduction
- 2.Why civil to it?
- 3.Grades of concrete.
- 4.Grade of steel bars
5. Explain cdac project
- 6.asked in depth about project
- 7.why mongodb over sql
- 8.Explain try catch block
- 9.Types of exception and explain them
- 10.Can we print try catch block alternately?
- 11.Biggest struggle of your life till now?
- 12.Normilazion explain
- 13.Explain sub class?
- 14.Class vs Object
- 15.Method overloading and mothod overriding
- 16.Asked which technology you worked in project
- 17.Node.js asked in detail

Cybage :-

- 1) introduction
- 2) why civil to it
- 3) Is your previous study will use in IT.
- 4) Explain OOPS concepts.
- 5) Overloading, Overiding.
- 6) explain about your project.
- 7)what part you work in project.
- 8) why normalisation.
- 9)how you Increase performance of Mysql.

Sapiens

introduction

about project

what is used of xml and why you choose android

oops pillar

Thread lifecycle

how to create Thread and runnable interface , using Thread class

overload vs overriding with example

Hierarchy of collections

Exception handling question :

he give some scenario and said what will happen next e.g which exception will occur

check exception vs unchecked exception

hashmap internal working (i explain hashCode and equals method)

way for swap element without third variable

string program reverse

L2:

what are data structures you have used :

arraylist vs linkedlist

way for find pair from array by sum

solution:

<https://www.geeksforgeeks.org/count-pairs-with-given-sum/>

object class methods ?

why we need concurrent Hashmap ?

remove duplicate from string used hashmap ?

Sapiens technology

Technical round

Mysql based questions

Primary key vs unique key

Constraints in sql

Assignment je tyanni dille hote apti technical round la tya var question

Mag questions based on situation database related

Asked me that we have developed a website how will you improve it and how many db will be created and regarding pk and fk

Manageral round

Ikadchi tikdchi mahiti

Majhe diploma engg ani cdac project discussion

Project oriented situation based questions

Database situation based questions

Cdac project madhe je implement kela ahe tya functionality kashya kam kart ahet

What changes will you make if given more time

Baki project vr taklya var client kasa handle karshil baherche

Overall purna situation based

Ani mag HR

Red Nucleus

Given an assignment to complete which had a task to create a reusable component. It was like a social media account profile like card.

Post assignment completion, Interview:

It had two parts. 1. soft skill and 2. technical pairing.

### 1. Soft skill

Tell me abt yourself

What challenges did you face in your work or life?

You mentioned that you had to learn many things in small time. so, How did you manage time?

Did you face any conflicts with your colleagues in your previous job? How did you deal with them?

Did you ever go beyond your capacity to do/achieve something? (CDAC journey□)  
more irritating questions.

### 2. Technical pairing

3 tasks:

1. create a component which has a numeric value that can be increased with a button.

TWIST- this button should be on another component. Tell me ways how would you achieve this?

I said: 3 ways: Props, Redux, Context API.

She told me to do it with props.

On completion, next task:

2. Code to an html form was provided as a react functional component. which had a text field and a button.

Requirement: Write logic to show the text written in that form on screen. You should be able to add multiple items like a shopping list.

Also, write logic to remove that particular item if clicked on it.

3. A url was given which produced some json data.

Write code to display that data on screen. the data should load before the component loads

### Principal Global Services

1. Tell me about the DAC course. Which is your fav module?

2. How can we enter data in database from let's say taking input from console or from a file? not the exact code but how would be your approach?

3. Basic questions from java like what is Try catch block and it's need?

If I write try catch block in finally block, is that supported? how many times can I nest that? is there any limit?

3. Diff between codes and scripts. if you don't know, that's fine.

I knew 1 diff that I told him. He told me other imp ones. (Good guy)

4. some situation based questions which include:

1. Let's say you wrote a code today and in next version of java, some methods from your code were deprecated. How would you deal with it?

I said I'll check with updated docs and replace the deprecated methods with their updated alternatives.  
Is there any way to find them in IDEs? told him about VS code's strikethrough feature.

2. If I had to write a code that's going to be deployed in cloud, what things would you consider while writing code?

there were more such questions. unable to recall

Prototech Solutions

Pune

Name - Ninad Bangal

Centre - AIT YCP, Mumbai

Round 1 - Online test (technical + Geometry Aptitude)

Round 2 -

1. Tell me about yourself.
2. OOPs and pillars of OOPs.
3. What is interface?
4. Polymorphism with example.
5. Code simple program to find area of rectangle and square by making classes.
6. One simple geometry question.

Round 3 -

1. Tell me about yourself.
2. Project, technologies, role, challenges faced.
3. Springboot annotations used in project.
4. What is react router? Use?
5. What hooks you used in your project?
6. CDAC modules and overall day during course?
7. Types of constructors? where and when real time use.
8. What is abstract class with example?
9. What is interface?
10. Difference between abstract class and interface.
11. Can interface methods have body?
12. One geometry problem (tough).

13. Any specific technology you want to work? Or flexible?

14. Any questions for me?

Deutsch Telekom

10 min mdhe technical zala

2 min mdhe hr

Intro

Project

Oops concept

Polymorphism

Deutsche Telekom Clinical solution

1.

PreScreening

intro

why u switch E & tc to IT

ready for relocate to pune

i m 2019 passout explain gap

u r preparing for gov exam then why IT  
technology intrest

2.

Aptitude

20 question MCQ

interviewer share their screen start test and we have to choose option and tell them mark option.

oop's, c#, some other question

aptitude and puzzle

3. Technical Interview Round

1 .Intro

2.Project

3.Why IT

4.explain project in detail ur role in project .

5.what wre the tables and fields in your project and write tables and field in notepad .



6. duplicate data then how u normalize
  7. some scenario based question on database
  8. how u maintain relationship in tables
  9. write query find all users that all user have permamnet license.
  10. what id DI
  11. How it works
  12. Why we use DI and IoC
  13. how u use polymorphism in ur project and explain
  14. types of polymorphism.
  15. which polymorphism u used
  16. what is static ,explain why use example where we access
  17. final class and why
  18. private constructor and why
  19. some scenario based question on project like if status change in your project how it reflect to user and flow.
  20. 3 ,4 scenario based question on project
  21. do u know react what is react and why u used
  22. to write login from in react how much time u take .
  23. basic about react.
  24. any question for me .
- 

#### 4.HR Round

location  
ready for join  
relocate  
disccuss CTC  
education details  
information about company

Final Selection ....

Deutsche Telekom Clinical Solutions India Pvt. Ltd.

Round 1 - PreScreening Round (10-12 minutes)

1-Introduction

- 2-Project Flow, Description,Technology
- 3-about Deutsche Telekom Clinical Solutions??
- 4-Languages known and interest
- 5-About Dot net

Round 2 - MCQ on Java and Aptitude (20 minutes 20 Questions)

Interviewer shared his screen and I need to give answers afterwards he'll select on his screen.

- 12 -questions was on JAVA - Snippets,association,OOPs,cohesion, coupling etc.
- 3 -questions was on JAVA topics which I never heard before so forgot.
- 5 -aptitude (direction, percentage,seating arrangement, work & time.

Round 3 - Technical Round - CORE JAVA

- 1-Introduction
- 2-why are switching from Mech to It, as you have proper 4 years of experience as Design engineer?
- 3-Project (CDAC)-Flow, Description,Technology, about members.
- 4-have you done Authorization & Authentication in your project, if yes please elaborate it.
- 5-Which annotation you used?
- 6-why do you choose this project-e commerce?
- 7-few question about Service Layer, Spring Boot etc.
- 8-have you used OOPs concepts in your project, where and why?
- 9-JAVA OOPs concepts in brief with proper example.
- 10-Exception Handling- how it works?
- 11-Ways to handle Exception?
- 12-Try,catch,finally- basics & Deep Questions
- 13-Database- PK, FK and other few basic Questions
- 14-Explain what do you know about DB, Operations, Languages etc.
- 15-few basic codes,snippets?
- 16-Do you have any query or doubt?

Round 4 - Technical Round - .NET

- 1-Introduction
- 2-why Mech to It?
- 3-Project ( BE + CDAC )-Flow, Description,Technology,about members,Duration.

- 4-Explain your role in Brief?
- 5-few more Question about Project.
- 6-What is .Net?
- 7-component of .Net Framework?
- 8-Memory managment in.Net Framework?
- 9-How Garbage Collector exactly works in .Net Framework?
- 10-Advantages of .Net Framework over the other frameworks?
- 11- Types of CLR?
- 12-Explain - CTS, CLS, JIT, GC?
- 13-OOPs Concepts with practical examples?
- 14-Diffrence between Abstraction,Envcapsulation in depth.
- 15-difreence,use of out, ref keywords?
- 16-Pverriding in C# - syntax with proper keywords
- 17-Diffrence between Abstract class & Interface-Not basic diffrence like keywords diff etc.
- 18-What is Generic, expalin basic structure and advantages of generics in .Net?
- 19-Normal class, generic class ?
- 20-questions regarding Overloading & overriding, tricky was there?
- 21-Have you used multiple Inheritance anywhere?
- 22-Few scenerio based questions
- 22-Do you have any qurery or doubt?

more questions were from dot net as this round was totally based on .Net Framework.

#### Round 5 - HR Round - Personal Questions

- 1-Introduction
- 2-why Mech to It?
- 3-Family background?
- 4-Every ones profession?
- 5-about the organization?
- 6-she gave the Organization details, role, package details etc?
- 7-when can you Join?
- 8-Do you have any qurery or doubt?

\*\*\*We will get back to you\*\*\*

## Cumulus

1. Introduce ur self
2. Why have have shifted from civil to IT
2. Explain project in detail
4. What is Api
5. Given 2 codes in chatbox and asked about output and Explain why
6. What is public static void main Explain the statement ?
7. What is schema dig? What is entity? Attributes? How can u explain it with ur project  
Given one example from ur project
8. Explain diff type of Keys in mysql? Explain composite Key?
9. Types of join  
And ask to share screen and show self join query using my database
10. Some questions related Linux
11. what is exception? explain exception handling?
12. Some query of mysql and was asked to explain them

## Prototech

### TR1

- 1 introduce Yourself
2. what is class?
3. what is an object?
4. what is an interface?
5. Any project you have done? Explain project? which part you have done?
6. program to print natural numbers and also print the sum of all

-----  
geomertry questions:

- 
7. image was given: asked to find the angle of the triangle
  8. how will you check whether the point lies inside the rectangle, outside the rectangle or on the rectangle

9. image given: write an algorithm to find how many triangles are there in an given image of triangle

10. if a person started walking towards you and after a point he turned left. what is his current direction?

Name: Nikita Kulkarni

Company: ProtoTech L1

Questions:

- 1)Introduction
- 2)OOPs Pillars in detail with example
- 3)What is method Overloading?
- 4)What is method Overriding?
- 5)What are two types Polymorphism?
- 6)Write code for compile time Polymorphism.
- 7)Write Code for Runtime Polymorphism
- 8)Explain overloading with code example
- 9)Explain Overriding with code example.
- 10)What are constructors?
- 11)Explain two types of constructors.
- 12)What is Copy Constructor?
- 13)Explain difference between default constructor and Copy Constructor.
- 14)One code given and I need to tell which constructor will be called at line.
- 15)Do you know Data Structure?(I said Yes)
- 16)Explain Linked list
- 17)What are types of linked list?
- 18)What is difference between doubly linked list and Circular linked list?
- 19)What all operations we can perform on queue?
- 20)Geometry Question: One point is there and one circle with radius. Tell me the logic to identify that point is inside the circle or not?
- 21)What is formula for Distance?

Prototech L1

1. Introduce your self
  - 2.oops concept with realtime examples
  - 3.what is array
- Advantage disadvantage

- 4.array list
5. 5-3 liter container puzzle
6. Red box blue box mix box puzzle
7. Reverse array without using another array and save in same array
9. Geometry -vector

Round 1 - Online test (technical + Geometry Aptitude)

Round 2 -

1. Tell me about yourself.
2. OOPs and pillars of OOPs.
3. What is interface?
4. Polymorphism with example.
5. Code simple program to find area of rectangle and square by making classes.
6. One imple geometry question.

Round 3 -

1. Tell me about yourself.
2. Project, technologies, role, challenges faced.
3. Springboot annotations used in project.
4. What is react router? Use?
5. What hooks you used in your project?
6. CDAC modules and overall day during course?
7. Types of constructors? where and when real time use.
8. What is abstract class with example?
9. What is interface?
10. Difference between abstract class and interface.
11. Can interface methods have body?
12. One geometry problem (tough).
13. Any specific technology you want to work? Or flexible?
14. Any questions for me?

Prototech

L1 of prototech

introduce yourself

what is abstract class?

diff bet abstract class and interface

you work on which part of your project

what is restful api

program to find output till 15 term

$1 + (1/2) + (1/3) + (1/4) + \dots$  n terms

geometry based 2 pictures are given we have to find out angle

Prototech manager round

suchita sutar

1. introduce yourself
2. project explanation
3. which technology u have used in project?
4. how hibernate is connected to the db?
5. where is inheritance in project?
6. where u have take is -A relation and Has-A relation in project?
7. what is stringbuffer and string?
8. why string is immutable?
9. what is the use of string if it is immutable?
10. why did you use jsp in project? why not react?
11. what is your project status? is it working?
12. if there is 2 ball which ball will sink 1st in the water? matter and weight of both ball is same
13. do have any questions?

{CODERS}

1. Write a program that reads in a text stream from standard input and uses a stack to determine whether its

parentheses are properly balanced. For example, your program should print true for `[]{}{[](){}()}` and false for `[]()`.

Hint : Use a stack.

2. Write a program that takes from standard input an expression without left parentheses and prints the

equivalent infix expression with the parentheses inserted. For example, given the input `1 + 2 ) * 3 - 4 ) * 5 - 6 ) )`

USM's Shriram Mantri Vidyanidhi Info Tech Academy

Your program should print

$((1 + 2) * ((3 - 4) * (5 - 6)))$

3. Write a program that converts an arithmetic expression from infix to postfix
4. Write a algorithm to detect a loop in a singly linked list of unknown size?
5. Write a program to maintain a singly linked list having the following functions:
  - a. Creation of the list
  - b. Displaying the list
  - c. Sort the list
  - d. Insert node
  - e. delete node

Round 1 - Online test (technical + Geometry Aptitude)

Round 2 -

1. Tell me about yourself.
2. OOPs and pillars of OOPs.
3. What is interface?
4. Polymorphism with example.
5. Code simple program to find area of rectangle and square by making classes.
6. One imple geometry question.

Round 3 -

1. Tell me about yourself.
2. Project, technologies, role, challenges faced.
3. Springboot annotations used in project.
4. What is react router? Use?
5. What hooks you used in your project?
6. CDAC modules and overall day during course?
7. Types of constructors? where and when real time use.
8. What is abstract class with example?
9. What is interface?
10. Difference between abstract class and interface.
11. Can interface methods have body?
12. One geometry problem (tough).
13. Any specific technology you want to work? Or flexible?
14. Any questions for me

ProtoTech Solution

L1



Intro

OOPS

what encapsulation and what are factor taken while implementing encapsulation

Abstraction

how to achieve abstraction

why we cannot create object of abstract class

what is string and stringBuffer

what exception handling, types, how to handle

what is finally block

1 que on Geometry

2 circles having radius  $r_1$  and  $r_2$  what is condition of intersection of circle

1 puzzle - 9 balls , 8 having same weight and 1 ball heavier than 8 balls and for comparison u have weight scale and u can use it only 2 times

L2

1. Intro

2. Why mech to it?

3.About project

4.What is your role?

5.What method you have used in controller?

6.Tell me the Annotations and their meanings?

7.What is dependency injection and how to implement....what are the ways to implement

8.which http method you have used

9. Why not you used post method

10. Write a class ani call 2 constructor (parameterized and parameterless)

11. What is function overloading

12. Write a overloading program and call

13. What overriding write a program for that

14. Given a string helloworld

Find no. of occurrence of repeated letters

15. 1 geometry questio

L1 of prototech

introduce yourself

what is abstact class?

diff bet abstract class and interface  
you work on which part of your project  
what is restful api  
program to find output till 15 term  
 $1 + (1/2) + (1/3) + (1/4) + \dots$  n terms  
geometry based 2 pictures are given we have to find out angle

HITACHI

Hitachi Payment Interview Questions :  
Amol Misal 09/10/2022

What is your project in detail how the project work ?

What is mean by authentication and authorization

What annotations used in Service layer

How many services you developed in your project

What you used in your project https or http

How change the port of server in project .

How you achieved abstraction in java

What is serialization and deserialization

What is diamond problem

Explain diff methods for creating objects

Can you create instance of abstract class.

Can we handle errors ?

HITACHI

Introduce yourself

Family members

Why Civil to IT

your favourite modules in cdac

Project explain

What is spring boot

What is difference between spring and spring boot

What is hibernate

Why spring boot

Can we use hibernate in spring boot

Steps of hibernate in spring boot

What is Linq in .net

2 questions on Linq again

What is stored procedure

Why we need stored procedure

What is triggers

What is view

What is cursor

Then he started asking HR questions

Hitachi Payment Services Pvt Ltd

Name : Poonam Uttam Sable

1) introduce ur self

2) rate urself in java and database

3) query for first 10 rows in table

4) what will use to join 2 columns from 2 tables

5)oops concept

6) what is data type, variable, class , object

7) project questions

Hitachi

Name:Abdul Qadar

some personal Questions

project

Questions on.net MVC

What is Viewebag

what is ref?

What is indexes

What is join why we use it

what is normalization

what are the component in react  
which component u have used in project and why  
what is props  
what is state in react how you maintain

#### Hitachi Payments Services Pvt Ltd interview questions

- 1) Explain Method overloading and method overriding
- 2) Explain abstract class
- 3) Difference between abstract class and interfaces
- 4) Can we write abstract class final
- 5) Can one class extend more than one class
- 6) Why multiple inheritance not supported in java
- 7) How we can achieve multiple inheritance
- 8) Explain thread life cycle
- 9) Explain synchronized method and synchronized block
- 10) Which one is better to create threads eg. by extending thread class or implementing runnable interface
- 11) Explain collection framework
- 12) Explain concurrent Hashmap
- 13) What is garbage collection can it be forced to run
- 14) Access modifiers in java
- 15) Explain your project in detail
- 16) Your role which part you done
- 17) Have you work on springboot
- 18) Then explain springboot with its advantages and different annotations
- 19) Any question for me

#### Infinite computer solutions

##### Introduction

Why 2 yr a gap after education?  
What is java  
OOPs concept with an example  
++i and i++ difference (notepad)  
For loop time complexity with example (note pad)  
Write a program for finding factorials on the notepad.

Write program for inheritance (note pad)  
Early binding and late binding diff  
Exception handling flow chart  
Which is the super class for exception and package (lib)  
try-catch block  
what is finally  
where developer use finally (Ans- To close database connection)  
Flow chart of Collection  
diff between set and list  
for storing employee details what should you use set or list and why?  
what are the primary key and foreign key and why they are used?  
Introduce your project in brief.  
why react and spring boot?  
How many tables in your project and their connection by using keys  
What are DAO and POJO  
How do you do database connection in a project?  
what are triggers and procedures?  
Select, order by, and desc queries.  
Any questions for us..?

Alltres technologies

L1

introduction

which technology u have worked on?

what is requestparam and pathvariable ?

Restcontroller vs controller annotation?

Write down the program to remove duplicate elements from list using stream API ?

Program to print pattern

1 1 1

1 1

1

L2

Brief introduction?

what is sdlc explain in detail?

what is UAT ?

what are the types of testing explain in detail?

what is ur role in project?

What challenges u have faced in project ?

Why project deployment on aws is not successful ? what is the issue ? did you get the reason why its not working ?

you completed engineering in mechanical and why now ur shifting to IT?

L1:-Altres

1)write a query for left join for this table .

```
select * from employee left join emp_adress on employee.id=emp_adress.id;
```

2)write a quer to remove duplicate data in table.

3)explain this program flow .

public class pattern

```
{
    public static void main(String[] args) {
        for (int i = 1; i <= 10; i++)
        {
            for (int j = 1; j <= 10; j++)
            {
                if (i==1 || i==10 || j==1 || j==10 )
                    System.out.print(" 1");
                else
                    System.out.print(" ");
            }
            System.out.println();
        }
    }
}
```

4)explain this program.

public class JavaProgram

```
{
    public static void main(String args[])
    {
        int num = 236, d=0, rem=0;
        while(num != 0)
        {
            d = num%10;
```

```

        d = d*10 + rem;
        num = num/10;
    }
    System.out.print(d);
}
}

```

4)explain this program.

```

String s1 = "HELLO";
String s2 = "HELLO";
String s3 = new String("HELLO");
System.out.println(s1 == s2);
System.out.println(s1 == s3);
System.out.println(s1.equals(s2));
System.out.println(s1.equals(s3));

```

5)explain this program.

```

public class JavaProgram
{
    public static void main(String args[])
    {
        int i, j, k=8;
        for(i=0; i<5; i++)
        {
            for(j=0; j<k; j++)
            {
                System.out.print(" ");
            }
            k = k - 2;
            for(j=0; j<=i; j++)
            {
                System.out.print("* ");
            }
            System.out.println();
        }
    }
}

```



{CODERS}

- 6) difference between linkedlist and arraylist.
- 7) difference between doubly linked list and circular linked list
- 8) difference between iterator and list iterator.
- 9) difference type of create string
- 10) if we not write catch block so program run or not?
- 11) difference between ClassNotFoundException and ClassNotFoundException.
- 12) we write 2 catch block upper is Exception and lower once is Arithmetic exception so which one will execute.
- 13) types of class loaders in java.
- 14) how u can base method without instance.
- 15) how you achieve abstraction.
- 16) write a program

```
*  
* *  
* * *  
* * * *
```

- 17) tell me your institute name

L2:-Altres

- 1) explain your project .
- 2) why you use Jsp instead of react .
- 3) degree project related question.
- 4) what is agile.
- 5) what is scrum.
- 6) are willing to relocate in mumbai.
- 7) tell me you institute name .

Cognologix Technologies Pune

Name-Shivani Chalwade

Aptitude+Technical round

L1 round-

1. Intro
2. Project flow
3. Print Longest substring without repeating characters with 2 different approaches
4. Time complexity for two for loops



L2 round-

- 1.Intro
- 2.Project flow
- 3.Rest api
- 4.Write one api
- 5.Code snippet about .equals and asked me what will be the output  
obj.equals(null) was the first condition (and some cross questions on this)  
two more basic conditions was there
- 6.Why not null pointer exception ? What is null pointer exception ?
- 7.Can we override equals ?
- 8.Where equals method lies?
- 9.Implement equals method by your own from scratch?(cross questions on this)
- 10.What happens if you don't override equals?
- 11.What is exception? what is exception handling?
- 12.Difference between throw and throws
- 13.Difference between final , finally , finalize
- 14.Code snippet on exception

```
public boolean someMethod()  
{  
    Try{  
        return true;  
    }Catch(){  
        return false;  
    }  
}  
  
}Finally{  
    System.out.println("I am here");  
}
```

if it goes in the try block then what will be the output? Will finally work here? (more discussion on this)

- 15.What is Multiple inheritance?
- 16.What is diamond problem?
- 17.Which database you used in your project
- 18.Which all tables are involved in your project
- 19.Explain foreign key
- 20.Foreign key from your project
- 21.Overriding and overloading
- 22.What is the need of overriding and overloading
- 23.Do you used Jpa in spring boot?
- 24.What you used custom or inbuilt methods from jpa?

25.Can we pass data from Get request ?

26.About Request body?

L3 round-

1.Intro

2.Project flow

3.Family background

4.Why you switch to IT?

5.As your project is available on internet ? you copied from internet or you did it on your own ?(My project was Online movie ticket booking system)

6.Explain from scratch how you decided to do your project ?

7.Why you choose this tables?

8.Different real life scenarios on Project (10-15 minutes discussion)

9.Asked about B.Tech project

10.Rate yourself in mysql , react and java

11.How you are updating yourself with changing technologies ?

12.Do you have any questions?

13.I asked about their ongoing Projects?

L4 round(HR round)-

1.What you have learnt from all these 3 rounds?

2.Intro

3.Family background

4.Asked how will you design Pen from scratch? (10 minutes discussion)

5.Where you will see yourself after 5 years?

6.Are you willing to relocate ?

7.Are you comfortable with any languages?

8.And discussion about company and CTC?

9.Do you have any questions?

ProtoTech Solutions TR2

Questions:

1) Introduction

2) tell me about yr project. (I had given 15 min explanation including all key points of project.)

3) There are two balls one is of plastic and one is of iron. Which one float and which one sink?

4) Have you seen any real example where iron float? (Ans:Yes Ships)

5)Why doesn't the ship sink?

6) Have you worked on ML(Machine learning)?

Ans: I said yes. My final year project is based on that and I had given 5 min explanation on my project.

7) Any questions for me?

## ProtoTech round 1

### Introduction

1) opps concepts with real life example

2) explain project what you did and how so basically contribution he wants to know

3) what is constraints in mySQL

4) 7 to 8 questions on geometry as company profile needed that

- how two line can be paraller

- we have one circle and one point how can you justify that point is inside circle or not

- find angle form a that traingle is inside the circle and there is two traingle

- there is reactangle and Diagonal of rectangle find the angle

They showed me a diagram and ask the output and algorithm for the same or any different approach

Also asked so many rapid fire question on geometry

5) arraylist vs linkedlist which is better at what condition and why

6) situation based questions for distance

## Interview is about 30+ minProtoTech round 2

### Introduction

1) Explain project

2) opps concept

3) explain your contribution

4) Then what is the use of static and various conditions on static only for 5 min that topic we discuss

5) Geometry questions on various condition

Like density

6) some non technical questions

7) what table are there in your project how you maintain relationship

One to many or many to one

Interviewer about 25+ years of experience so wherever I don't know the ans I told that I am unaware about that

### Knight Fintech Interview Questions

Overriding which keyword we have used

Where u stored data at server side

Override keyword use karte bola meine in derived class and in base class virtual keyword

Suppose we are traveling from point a to point b with aeroplane so how much amount of fuel we have consumed

Panel name : Abhishek & Nitija

Questions: 1) In Overriding which keyword we used in c#?

2) Where u stored data at server side?

3) Flow of project

4) Write one controller method of your project

5) Suppose we are traveling from point a to point b with aeroplane so how much amount of fuel we have consumed

6) Hashmap internal working and where you have used hashmap in your project?

7) What is generic...where it is used in your project?

8) Which exception u have used in your project? And how it is working?

9) What configuration u have done in ur project to connect with db?

10) How owner can update the rent in your project? Tell me what code you have written in spring boot for this?

### HR QUESTIONS

1) give your introduction

2) what you know about our company?

- 3) why you choose IT Field?
- 4) Are you ready to work from office?
- 5) Are you ready to work in startup? Or you want MNC ?

Panel- abhishek and nitija

Questions-

- 1) project details
- 2) what u used for security
- 3) how u managed ur sessions
- 4) how jwt works
- 5) which data structure u have used
- 6) what is dictionary?
- 7) difference between hashmap and dictionary
- 8) what is adv of put over post
- 9) where are u storing ur data?
- 10) how ur data is saved in database(process)
- 11) overriding scenario
- 12) how u handled jwt token
- 13) exception handling(how u handled it in ur project)
- 14) which data structure u hv used in ur project and how it works..
- 15) internal implementation of hashmap
- 16) call by value and call by reference and where it will store in memory
- 17) adv of heap memory
- 18) what is partial class
- 17) snippet
- 18) user authentication
- 19) overriding in deep
- 20) how u r fetching the data from the database(technically batao)
- 21) scenario based que

Technical que :

All in n out project how to develop n OTP logic

Db connection in project

Array reverse code and copy that array into another array

Which collection used in project and data structures

HR questions

Would you comfortable at Mumbai nature as ur staying in cool climate 😊

Which role would you like to work on

Ques related to project only and mostly asked me on Front end

What do you mean by method overloading?

Which ds you have used in your proj?

What are the types of ds?

What is stack?

Oops related ques

Panel : Nishant

Que

Tell me about yourself

Explain your project

Diff between interface abstraction

Reverse array

In and out of project

3 coding snippets

Access modifiers

Diff between protected and private

How schema is made in your project

MVC flow diagram

How your data is stored in database

User login admin login and their functions

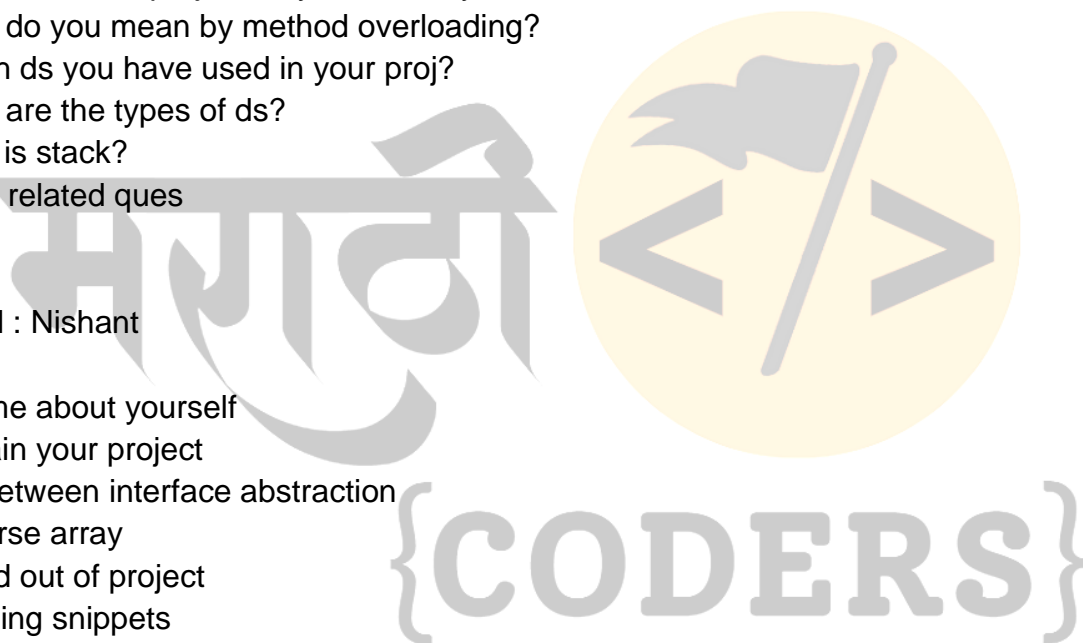
How would you make this project if you have to make it again

Will you travel daily for office

Any questions

Panel : Nishant , nitija, nidhi

Que-



Tell me about project  
Explain project  
Difference between interface and abstraction  
Reverse array  
2 coding snippet  
Access modifier  
Diff betn protected private  
MVC flow  
Your role in project  
2 logical ques  
Reverse an array using stack  
Ready for relocation  
HashMap hash function hash code it's working  
Array and arraylist difference  
Jyada tricky ques project pe hi the.. yeh q use Kiya yeh q nahi kiya.

Panel: Abhishek

- Authentication and authorization in project
- Take one operation and explain whole flow from front end to backend
- which ds u used in project
- Linked list
- deletion of center element of LL
- method overload
- method override
- give example of both
- generic.. How do u write it
- explain binary search
- binary search complexity
- database design scenario based(how many tables will be there and relationship between tables)

HR

- Tell me about your background?
- have you worked anywhere?
- why it?
- okay with Mumbai?

- okay with start-up?
- can u join immediately after selection?

Panel: Nishant, Nidhi, Nitija  
Tech questions

Knight Fintech 15 Nov.2022

(Saurabh Kale)

- 1)Introduction
- 2)Project Introduction+Functionalities+flow
- 3)How many roles of User in project, how authorized for Admin and User
- 4)Spring Mvc architecture explain
- 5)Asp.net Mvc (I explained purposfully MVC in both spring and Asp)
- 6)Session Management in MVC ways? Session management in Asp.net? (in proc State, Sql)
- 7)Restful Apis (explained conditions like cachable, client side storage, code on demand)
- 8)GET Vs. POST difference ( using post method also we can fetch data, so find some good points in difference like request body needed in post, URI path parameter needed in GET etc.
- 9)My project included a dummy Payment functionality, so question on Payment API.
- 10)I told in project intro, that I have deployed project, so question on EC2 and general steps
- 11)Polymorphism concept (Virtual keyword, new keyword, method hiding, everything explained in same concept)
- 12)How can you return multiple values from function (return type of methods generally string, int etc. So as to return multiple values we can use Out keyword also use of array and collections can help
- 13)Inheritance-Hierarchy (defination was easy but messed up in choice of words so explained with some example)
- 14)Entity Framework (ORM framework in .net)
- 15)web config file
- 16)Difference between TempData and ViewData
- 17)DDL, DCL, TCL,DML commands
- 18) diff between Truncate Drop Delete



19)can we use Update with views (confused, not answered this, but later clicked he was interested to know about checkwithoptions clause)

20)HTTP verbs (not answered, its easy question but we generally know http methods)

21)AJAX

22)JQuery (example, any function or event using id or class selector)

23)Teel you strategy to develop this application in detail:

You have to database of 10 employees record, on web page you have to show 10 records in table in which 7 employees present on 10th Novemeber in GREEN color and 3 absent employees in RED color.

(verbally ecplain frontend backend)

=====

Josh Softwares

First Technical Round:-

1)concurrency vs parallesim.

2)real life example of parallesim

3)git fetch vs git pull

4)how handle the merge request,git command all from init to commit.

5)subversion vs git.

6)method overriding vs overloading.

7)polymorphism

7)sync vs async

8)why nodejs instead of spring boot.

9)write quick sort code.

10)given array `int arr[] = { 8, 7, 2, 2, 2, 5, 3, 1 };` find the unique pairs of element having sum=10 output:[8,2],[7,3]

11)Two snippets to guess output

```
1) public class A {  
    public static void main(String[] args) {  
        if (true)  
            break;  
    }  
}
```

```
2) public class Demo{  
    public static void main(String[] arr){
```

```
}  
public static void main(String arr){  
}  
}
```

12)Linux command to find the file or directory having abc in their name.

13)Linux command to find the word in file having abc.

## Second Technical Round

1)Project discussion and what is your role.

2)How you deployed your application in aws explain steps.

3)Difference between webserver and appserver.

4)If payment is stuck in between and user money deducted then what is your approach and how you do it in code to handle it with respect to third party payment gateway vendor.

5)Explain Project database design.

6)what is normalisation and its types explain brief.In your project how much extent you achieve normalization.

7)Real life example of doubly linkedlist other than image viewer and

Exusia Direct

Interview Round 1

Panel - Sapan

What is your current location?

Where are you originally from?

Okay let's start with your introduction.

As i have testing experience asked few questions about my work experience. Where you worked, location, roles & responsibility etc. Any tool used for manual testing(Jira)  
Rate yourself in programming and database - i said 5/10 for programming & 6/10 for SQL.

Few questions about cdac project.(Which database, why mongodb, what was your role?, So can you say you had pretty good hands on programming because of the project?)

DDL, DML commands

Delete, truncate, drop commands

Difference between delete & truncate

Which out of two can be rollbacked.

Query to find highest salary of employee

Query to find 2nd largest salary

Join question -

Table 1 - 1 1 2 2 3

Table 2 - 1 1 1 4

How will you apply inner join, left right join

Cartesian product(due to duplicate values)(i was stuck here bit so interviewer explained me the concept briefly)

How many constraints in MySQL?

Diff between Primary Key and Unique key.

Which language you are comfortable with C or Java. I said Java

Write a program to determine whether a number is prime or not. How can you optimize this code if the number is say 1000 or 10000

Can we divide a number with a number which is greater than its half? How can you incorporate this logic in your prime number code?

Do you know what is palindrome? Can you write a program for same.

Any questions for me -

I asked my honest feedback for the interview. Any area to improve?

Exusia 2nd Technical round:

Panel - Sonali

Introduction

3-4 questions regarding my work experience

3 strengths, 3 weakness

Which technologies you learned in your course

Tell me about your cdac project

Which technologies used?

Why did you use mongodb?

Tell me the flow of your project in terms of the technology used

What was your role in this?

How you stored the data in mongodb

You used mongodb in your project, but do you have knowledge about rdbms?

Then what is RDBMS?

What is its advantage?

Difference between Union and UnionAll. Explain with example

{CODERS}

Difference between Where and Having.

Write a query to find third highest salary.

Which programming language are you most familiar with?

What other language you know other than Java?

Did you learn this recently or you knew this technologies before?

What is inheritance?

What is abstract class and interface?

Write a program to print fibonacci series

What is recursion? Why is it used. (This question was asked because i used recursion function for fibonacci series)

There is a data -

Apple12

Blackberry(some model number)

Nokia(some model number)

Samsung(some model number)

And i want the output as -

Apple

Blackberry

Nokia

Samsung

How can you achieve this in java?

Write a program to check whether a number is even or odd?

Have you worked on Linux or Unix

Do you have any knowledge on Data Warehousing?

What is .net?

What are loops in Java and which is the best loop to use

What is exception in java

What is String and String buffer? Can you give me an example where String Buffer is used?

Okay we are good you can leave the meeting.

Company: Motifworks India Private Limited

Name: Bachhav Akshay

Time: 25 minutes

1) Explain your project?

2) Explain schema of your project?

- 3)Difference between structured database vs unstructured database with examples?
- 4)Explain about cross joins?
- 5)give me two table if we applied cross join on it explain me the result of rows.
- 6)technology you used in project?
- 7)what is react?
- 8)can we add third party libraries in react?
- 9)if i want to add spinner and loader how can i add into react?
- 10)where it will be stored in saved.?
- 11)where is the entry of this libraries?
- 12)if i want to update version of libraries ? Which command will you use?
- 13)how can we design table in html?
- 14)how can we include js in html?
- 15)Merger two arrays in c++ how can you sort simultaneously?
- 16)difference between array and arraylist?
- 17)what is devops?
- 18)Do you have any quetsions for me?

Motifworks India Private Limited

Name: Bachhav Akshay

Time:25 minutes

- 1)Explain your project?
- 2)Explain schema of your project?
- 3)Difference between structured database vs unstructured database with examples?
- 4)Explain about cross joins?
- 5)give me two table if we applied cross join on it explain me the result of rows.
- 6)technology you used in project?
- 7)what is react?
- 8)can we add third party libraries in react?
- 9)if i want to add spinner and loader how can i add into react?
- 10)where it will be stored in saved.?
- 11)where is the entry of this libraries?
- 12)if i want to update version of libraries ? Which command will you use?
- 13)how can we design table in html?
- 14)how can we include js in html?
- 15)Merger two arrays in c++ how can you sort simultaneously?
- 16)difference between array and arraylist?

17)what is devops?

18)Do you have any questions for me?

Bank of America

Interview Questions

Time : 10:30AM to 11AM

1.Introduce yourself

2.Explain Project

3.Some detail discussion on project and Technologies used in project

4.what is encapsulation.explain with example

5.What is multiple inheritance

6.what is multilevel inheritance

7.what is constructor what are different types of it

8.what is destructor

9.what is FIFO

10.explain Linkedlist and its advantages

11.explain software development lifecycle

12.detail discussion on every stage of sdlc

13.What is normalization

14.what is primary key

15.explain database design of your project

16.difference between where and having clause

Bank of America

Intro

Project intro

What is oops concept

What is static keyword

Give me an scenario where we use static and why

Diff bet java and .net

What is class loader

Memory areas in jvm and explain

Bank of America

- 1.introduce yourself.
- 2.four pillar of oops
3. different between finally ,final, finalize
- 4.String vs stringBuffer
- 5.overloading vs overriding
- 6.what is exception and how to handle it
- 7.sql vs nosql
8. Primary key vs unique
- 9.What is your CDAC project and your role
10. What is @autowired
- 11.Write one controller of your project
12. Different between having and where clause

Bank of America

Interview Questions

Time : 10:30AM to 11AM

- 1.Intrdouce yourself
- 2.Explain Project
- 3.Some detail discussion on project and Technologies used in project
- 4.what is encapsulation.eplain with example
- 5.What is multiple inheritance
- 6.what is multilevel inheritance
- 7.what is constructor what are different types of it
- 8.what is destructor
- 9.what is FIFO
- 10.explain LinkedList and it's advantages
- 11.explain software development lifecycle
- 12.detail discussion on every stage of sdlc
- 13.What is normalization
- 14.what is primary key
- 15.explain database design of your project
- 16.difference between where and having clause

Company Name : Bank of America

- Introduce urself
- diff bet java and javascript
- oops concepts
- polymorphism deep
- diff bet overloading and overriding
- u have used react so what is version of react
- what is hooks & types
- diff bet prop and state
- how u maintain state in class component
- life cycle of react appl
- what is normally session
- what is exception
- try catch block
- what is database
- joins in sql

Bank of America      Second interview

1. Same question explain ur project
  2. Annotations of springboot
  3. Write Sql query ... simple queries eg. Display 2nd highest salary from the employee table..
  4. Some basic questions on rest api
  5. questions on react.....
- What is dom n virtual dom
- 6 explain state n props
  7. React hooks
  - 8 jQuery questions
  9. Question on react routing
  10. Again basic java questions
  11. Simple code:array reversing missing element...



Bank of america

L2 (second round)

- Introduce urself
- project details
- what is react
- what is render method
- is it necessary to use render method in react
- features of react
- what is virtual dom
- what is mvc
- what is class
- what is object
- when class is loaded or how it work
- what is constructor & their types
- can we use multiple constructor in class
- can we declare constructor private ? if yes why
- access modifiers
- static keyword
- how many tables u created in your project
- what is primary key
- what is indexes & their use
- data types in sql
- diff bet varchar and char
- what is n-varchar (i don't know)
- query for removing duplicates
- query for take only duplicates
- synatx
  - Upadte
  - Delete
- diff bet delete and truncate



BOA

L1

which tech you are at good at ?

oops concepts - brief

polymorphism

abstraction

any imp spring annotations

how to connect database from spring boot

used any built in methods in spring boot ? yes

name them - findby, findbyall

how to connect database from spring boot

how to retrieve some data from database in springboot

sql ? yes

write query get student names in ascending order

write query to get students name whose age is greater than 15

L2

intro

skills

oops concepts

method overloading questions

2 code

reverse string

count number of digits in number

what is exception handling

what is spring

what is spring boot

which collection you have used?

when to use arraylist and linkedlist

what is hashset

what is linkedhashset

what is treeset

String why immutable

String constant pool

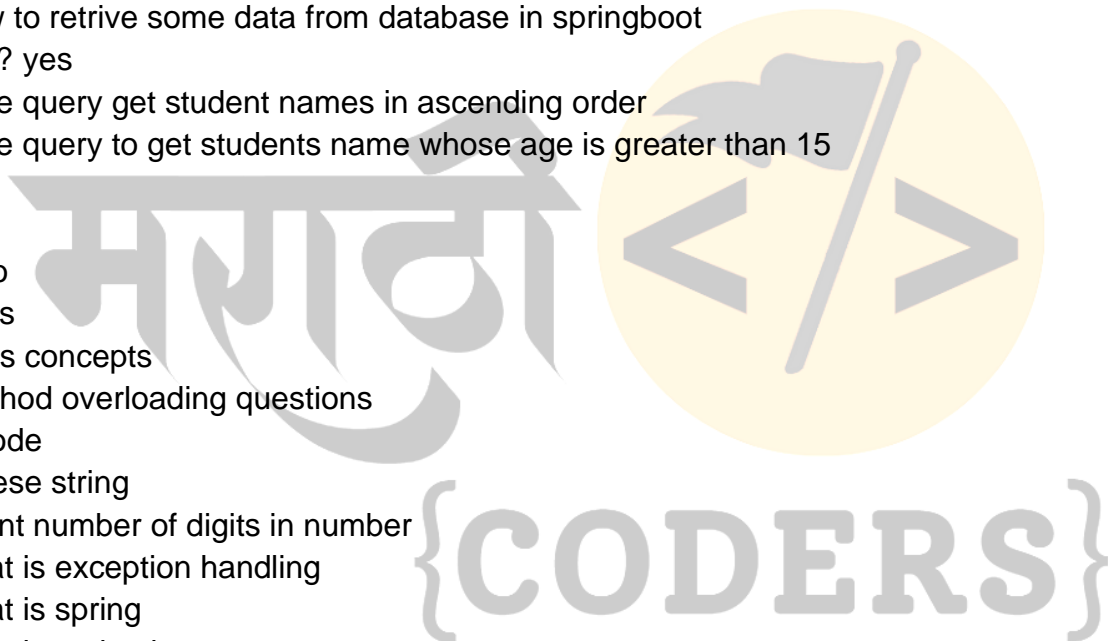
spring mvc - working

what is ioc

what is dependency injection

spring bean scope

@autowire annotation



@RestController

how to store data coming from api request to database

where business logic is written

what are services

what is hibernate

one to one mapping, annotate the classes

what is serialization ?

what is sql ?

sql vs hql

why hql ?

Hibernate caching

what algorithm is used by hql ?

rate yourself in spring out of 5 ?

any questions ?

Bank Of america

L1

Intro

Project

Oops

What is abstraction

Why to use inheritance

Swap 2 variables without third variable

L2 intro

Intro

What was your biggest weakness how you overcome it

What is your biggest success

Puzzle

9 coin find defective

Find minimum win needed so prize money is never goes below

Palindrome string

Find can you convert aam in palindrome

yes ama can be created from aam

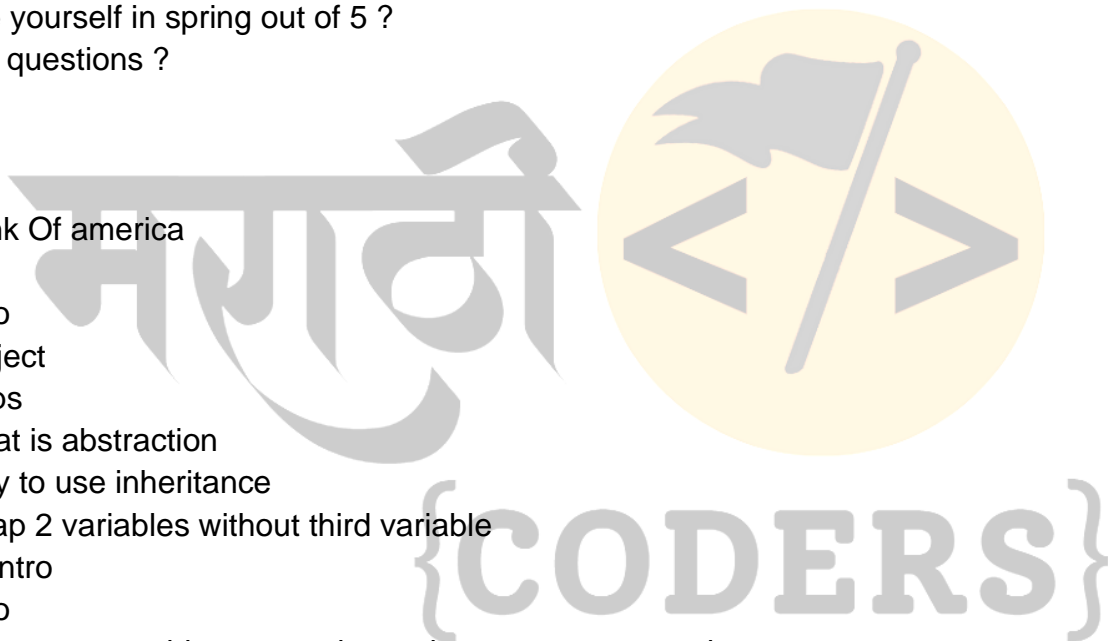
So write program for it

L3 10 min

Intro

How will create string on heap not on string pool

Swap 2 variables without 3rd



Stream api question  
How to find duplicate in list  
What is linked list

BOA

L1

which tech you are at good at ?  
oops concepts - brief  
polymorphism  
abstraction  
any imp spring annotations  
how to connect database from spring boot  
used any built in methods in spring boot ? yes  
name them - findby, findbyall  
how to connect database from spring boot  
how to retrieve some data from database in springboot  
sql ? yes  
write query get student names in ascending order  
write query to get students name whose age is greater than 15

L2

intro  
skills  
oops concepts  
method overloading questions  
2 code  
reverse string  
count number of digits in number  
what is exception handling  
what is spring  
what is spring boot  
which collection you have used?  
when to use arraylist and linkedlist

what is hashset  
what is linkedhashset  
what is treeset  
String why immutable  
String constant pool  
spring mvc - working  
what is ioc  
what is dependency injection  
spring bean scope  
@autowire annotation  
@RestController  
how to store data coming from api request to database  
where bussiness logic is written  
what are services  
what is hibernate  
one to one mapping, annotate the classes  
what is serialization ?  
what is sql ?  
sql vs hql  
why hql ?  
Hibernate caching  
what algorithm is used by hql ?  
rate yourself in spring out of 5 ?  
any questions ?

Gaurav kalal  
Company name : Bank of America

L1 : 20 min

Are you comfortable with  
. Net

- 1) Introductions
- 2) Question on academics grade
- 3) Project data flow explain
- 4) Explain oops concept with real life example?
- 5) What are the types of polymorphism?
- 6) What is JVM and it's function?

- 7) What is JDK and its function?
- 8) What is JRE and its function?
- 9) Who converts source code into bytecode?
- 10) What is bytecode?
- 11) Do you know about access modifiers?
- 12) What we can achieve from it?
- 13) In java how many access modifiers there?
- 14) Explain the scope of access modifiers?
- 15) Difference between default and protected?
- 16) What is static Explain it?
- 17) Why should class declare as static?
- 18) If class is static what you should write in it?
- 19) Can we access static variables in non static method? How?
- 20) Can we access non static variables in static method? How?
- 21) Can we call static method in non static method?
- 22) What is the significance of static block?
- 23) Why we declare main method as static?

(Last 7 to 8 min discussion on static)

.....

L2 : 50 min

- 1) Introduction
- 2) You published IEEE paper on your final year BE project explain in brief about it
- 3) Question on extracurricular activities mention in resumes
- 4) Explain your pgdac project
- 5) Why electrical to it?


Some behavioural question

- 6) What you know about it sector
- 7) What research you did before going in it sector
- 8) What time you spend in it including this course?
- 9) What you learn till now in it?
- 10) What is your biggest failure?
- 11) What you learn from your failure
- 12) How you overcome it
- 13) What is your accomplishments?

- 14) What is the biggest decision you take in your life
- 15) What makes you to take that decision
- 16) What are the top 5 it company in world
- 17) What are the top 5 it company in India

2 reasonings puzzles

18) faulty coin

9 coins, 8 coins have same weight and 1 is faulty coin which is lighter in weight and for comparison you have weight scale  What is the min number of attempt you take to find which coin is faulty?

19) min balance

There is one coin toss 10 times, if it is head you won and you get 2 rupee and if it is tail you loss and you have to pay 1 rupee. After tossing coin 10 times for how many times you should win the game so that you can have min balance (including 0 also)

What if you won the game 3 times what's your balance?

20) 1 query on 4 given table

.....

Exusia, Pune

Computer Science Analyst(4.2LPA)

Level-1 Tech Interview

1. Introduction.
2. Project And Your Role?
3. What are you do in your education gap?
4. What Reason for scoring less in CCEE?
5. Comfortable Modules? ans- Java, DBT, DSA
6. What is encapsulation and How you achieve ?
7. Advantages and Disadvantages of Encapsulation?
8. What is polymorphism?

9. Explain Runtime Polymorphism with example.
10. In java what topics in you are good.
11. What is Collection and Collections?
12. Explain Set in Collection?
13. Explain List in Collection?
14. What is Default value of ArrayList and what is next size?
15. Explain map in collection?
16. In map if you want to add duplicate key then which function you use?
17. What is SQL?
18. What is Difference between Primary key and unique key?
19. Types of Joins?
20. Query to find 2nd element in unsorted table.
21. What is RDBMS?
22. Explain E-R Diagram?
23. Transaction in SQL?
24. which are Data Abstraction level?
25. What is your hobbies?

#### Level-2 Tech Interview

1. Introduction
2. Explain Project And your role?
3. How many tables in your project and names?
4. What challenges faced in project how to recover?
5. Write a code add 2 number without using 3rd variable.
6. Write a code Count numbers of words in sentence.
7. Write a code Check String is Palindrome or not. ans- i use StringTokenizer methods
8. Write a code Reverse String without using inbuilt function.
9. Explain implement & extend keywords
10. Difference between class and interface
11. Use of interface?
12. What is Command Line Argument
13. Prefix and Postfix
14. What is TypeCasting?
15. Explain Bubble sort
16. Write a Query to join 2 tables
17. What is view?
18. Write a Query to update record in table.
19. What is Referential integrity?
20. Difference between Where and having ?
21. query to count records in table.



Level-3 HR Interview.

1. What you know about Exusia company?
2. What is cloud computing?
3. What is Data Analyst?
4. Why you switch from Entc to This field?
5. Are you ready to work with another programming language. like python
6. Write a Query. Two table Student and Result, count total marks of student and print those record who have aggregate above 200 .
7. Write code to find nth power in notepad and run code.
8. Any question for me.

Emersion

- 1 Introduction
- 2 About Project Archtechure
- 3 why used interface ,diff btn i/f and abstract class and access specifiers
- 4 what is Ajax
- 5 what is JSX
- 6 difference between sql and mongoDb
- 7 explain joins
- 8 Query on join and find max salary,2nd max salary
- 9 diff between primary key and unique key
- 10 diff btn drop ,delete ,truncate
- 11 scenario they asked if i want to delete one table data but table is used as reference by other table with primary key
- 12 what is virtual dom
- 13 react components
- 14 method overloading is possible in javascript-No
- 15 Advantages of mongoDb and for bank which database is used and why

EFKON India

(Noida Region) Interview Questions

BE project

Iterative model

Java and .Net difference

Rest Api

When we were not having REST API what problems faced?

Single threaded and multi threaded difference

Desktop application and web based with real time example application difference

Array and linked list difference

SQL keywords

Aggregate functions

Joins

Collections

Exception and it types

Xcaliber Infotech Pvt Ltd (Pune)

Package-5LPA

#Round 1:

Aptitude Questions -20

#Round 2:

a) L1 Round:

- 1) Tell me about yourself ?
- 2) Describe about Project ?
- 3) What are the features of the java ?
- 4) What is Abstraction ?
- 5) What are the Access specifier in java ?
- 6) What is Join & Types of the join ?
- 7) What is Thread in Java?
- 8) Ask the Code-

Given the two strings, find if both strings have the same set of unique characters.

Both strings are made of lowercase Roman alphabets.

Example 1: aabbc and abc Ans: True



Example2: abcd and abc Ans: False

Example 3: bbddcc and dcb Ans: True

9) What is Interface ?

10) Difference Between Drop, Delete, Truncate ?

#b) L2 Round:

1) Tell me about yourself ?

2) In Which language u are comfortable ?

3) What is default port number of Web Server ?

4) What is Spring Initializer ?

5) What is react ?

6) What is Virtual Dom ?

7) Explain HTTP Servlet With Diagram ?

8) What is Joins ?

9) What is IOC Container ?

10) Given a two tables And asked to perform Left Outer Join ?

11) Write a Bubble Sort Algorithms ?

Allygrow

Asked about project

Why you use MySQL

Wrapper class

Awt package

Implementation of linked list

Use of stack and queue

Vaibhav Deshmukh - IACSD

-----

Allygrow Technologies

-Technical interview

1. Intro

2. Project

3. Springboot related questions

4. Spring

5. Hibernnet, JPA

6. What is React js what do you mean by responsive page
7. What is API
8. What is Finalize method
9. What is Garbage collector
10. In java how memory allocated
11. What is dynamic memory allocation
12. What is heap
13. How heap memory works
14. Explain memory areas in java
15. WAP for swapping of two numbers
16. WAP for calculating avg of 5 different numbers you can take only two variables.
17. Binary search algorithm working explain time complexity
18. Explain any one sorting algorithm.

-HR interview

1. Intro
2. About experience
3. Family background
4. Ccat rank
5. Are you flexible with technologies?

First insight Software Solution

1. First a phone call to confirm and are u ready for interview then Gmeet link is shared and asked to join.

After joining Meet.

Interviewer Name- Abhishek Avadhoot

1. Intro
2. Basic OOPS pillars
3. Diff bet abstract and Interface
4. what is inheritance
5. overloading and overriding
6. Asked to share the screen n open notepad
7. write a prog to swap 2 variables without using temp or 3rd variable
8. write a query to update a name in a emp table where id is given
9. write a query to add a column in a table
10. what are Stored Procedures

11. Diff bet procedure and functions
12. Can we pass parameters in stored procedure
13. What are joins
14. Diff bet inner and outer join

## First Insight Software Solution

### L1

Introduction

project in detail

annotation used in project

oops

what is constant

static keyword

how can you handle exception

What is RDBMS

how to create table

primary key

foreign key

how will you check given number is even or not

(I have told mod function which is in mysql but interviewer expecting in programming language)

### L2

Introduction

project in detail

oops

annotation used in project

what is request body annotation

database inner join query

delete vs truncate

where vs having

normalization

BE project

there are another 4 to 5 questions which I dont remember now

### L3-technical discussion

we are 8 students and 2 interviewer in meet



interviewer asking questions one by one to each student

explain call by value and ref

how do you access data from database

how do you test your api's

in multilevel inheritance if we dont want to give access to grandchild which access modifier we use

there are three classes A,B,C. B extends A,C extends B. then inside A class ref if we store C class object which constructor get call

'==' vs equals()

explain instance variable and local variable

which datastructures are use for bfs and dfs traversing

explain stack and queue

real life example of stack,queue and singly circular linkedlist

what is abstract class

what is rest

how does virtual dom works

RDBMS features

transactions

unique key

foreign key,can we store null or duplicate inside foreign key

explain union and union all

explain outer,left outer ,right outer join

explain self join and give onne example

there is one snippet is given to each student where we have to find output(simple one)

these only I can remember now

First insight interview questions

Round 1 -

1.Tell me about your project. And your role.

2.why you used spring boot

3. Why you used React

4. MySQL questions,asked to. Write queries

5.javascript

6 .what is bootstrap, which version you have used of bootstrap, bootstrap 5 features

7.jquery selector

8. what is rest api

9.multiple inheritance

10.what is difference between class and object

11.foreign key, primary key

ROUND 2 -

- 1.JAVA SCRIPT
2. React - virtual DOM
3. React and angular difference.
- 4.union union all operators
- 5.sql queries
- 6.code snippets

Round 3 -

1. Can we insert null values in foreign key column
2. Problem statement on array
3. Constructors inheritance
- 4.project description your role
- 5.rest api
- 6.ternary operator
- 7.array sum code
- 8.right join left join inner join
- 9.recursion..how to terminate recursion..
- 10.string and string builder difference
- 11.bubble sort,doubly linked list, circular linked list.



{CODERS}

Volante Technologies

10:38 to 11:32

- 1.write program to find occurrences of each character in string without using collections
- 2.Write a program to reverse the string
- 3.Write a code to print 150 character in 3 parts like 1st part 70 and 2nd part 70 and remaining.
- 4.How many methods in object class
- 5.Name all methods of object class
- 6.How garbage collections works

- 7.Internal working of HashMap
- 8.HashSet and HashMap
- 9.What is serialisation
- 10.What is reference and object
- 11.Enumeration and Iterator
- 12.Write methods of enumeration and iterator
- 13.How to create custom exception and write code for the same
- 14.And some code snippets has given in chat to answer it.
- 15.Explain project
- 16.Http status codes
- 17.difference between 400 and 500 status codes
- 18.502 status code
- 19.Explain volatile keyword in java and it's advantages

Deutsche Bank

Round 1 coding(1 que) + tech mcqs

---

Round 2 (technical) : more of writing snippets on notepad

1. Introduction
- 2.Tell about project
- 3.which tech u learned in Cdac
- 4.explain project architecture
- 5.which part u done in project
- 6.how u created front end part
- 7.components created
- 8.write any component on notepad.
- 9.how u created backend?
- 10.write any controller and write any method in it
- 11.asked about annotations
- 12.what are different request methods? explain each
- 13.how we return anything in react (inside return method write element which will show some messege)
- 14.how we give class to any tag in react? -> using className (write on notepad)
- 15.asked some questions on css how we give style using class , id (write on notepad)
- 16.give any background color to any class(notepad)
- 17.what is router?write on notepad (given scenario if want to route to getbook how to do that)



18.Coding Question :

String longstr = "Devashish is a cdac student, Devashish is being interviewed for deutsche bank";

count the appearance of each word in this longstr, i wrote my own logic so he asked is there any method to split this string?

what is time complexity of your code ?

19.

```
final A a = new A();
```

```
B b = new B();
```

```
a = b;
```

```
a.c = 10;
```

can we do like this? asked some more questions after doing some changes.

20.

```
A a = new A();
```

```
B b = new B();
```

```
b = a;
```

can we do like this?

21.anything u want to ask?(I asked feedback)

-----  
Round 3(Technical) : (More on core java and practical scenarios)

1.Introduction

2.Project

3.which part u worked on?

4.which tech u know?

5.from ur curriculum which subjects u r good at?(He saw c++ marks on my resume)

6.In java which Part is good?(i said almost all)

7.then he asked most good topics from java?(I said exception handling and collection)

8.asked some questions on try catch and finally?is it ok if we write try with finally without catch?2-3 more questions

9.asked diff bet. arraylist and LL?

10.which collection is good to use?(I said depends on scenario)

11.tell me which collection is faster?(I asked for which operation) then he asked for retrieving

12.what is concurrent collections?

13.diff between concurrent arraylist and vector?

14.if i want to return 1 lakh records from database?How will i do that?What should i do to avoid timeout error?(hint : Pagination)

and 4-5 questions

any questions (I asked feedback)

-----

Round 4 (Tech + Manager) (Tried to put me under pressure in some questions)  
no intro

1. asked How were L1 and L2
2. what were the questions u didnt answer or not satisfied (i told one question from L2)
3. What u answered to that question
4. U mentioned about some competition tell about it (I mentioned go kart comp. in my resume)
5. Situation when u were in pressure and handled it (I told him scene from go-kart competition)
6. U have very good marks in ur BE, why less in 12th?
7. Do you know bernoulli's theorem?
8. tell me how did u built go-kart? did u built from scratch?
9. what is Algebra? Geometry? In simple words how will u explain it to school students (8th or 10th class)
10. tell me working of aeroplane? how does it fly?
11. what about helicopter?
12. which is better in performance? (I said for long it is aeroplane)
13. how aeroplane is better for long distance? (i told the role of aerodynamics)
14. asked which parts u worked in ur cdac project?
15. do u know about database?
16. asked one query - from emp table(eid,ename,salary,deptName) fetch top 5 salaries from each department
17. some more basic scenarios  
some 3-4 questions more
18. any question? (I asked about further process and training)

TSYS

Name : Kshitija kiran Bharate

Technical Round questions (45 min)

- 1) Tell me about yourself
- 2) oops all concepts with realtime examples
- 3) Explain project in brief
- 4) what is role in your project
- 5) which version of java you used in your project ?

- 6) what is java 8 features?
- 7) Explain stream api with methods
- 8) what is functional interface?
- 9) can we write default methods in functional interface?
- 10) You know Rest api ? I say yes then he ask me what is Rest api and which api you used in your project
- 11) what is multithreading ? What you can do if i want to access single thread at a time .
- 12) print pattern program  
1  
22  
333  
4444  
55555
- 13) what is joins in mysql explain each
- 14) what is primary key ,foreign key and unique key
- 15) what is indexing in mysql
- 16) what is trigger
- 17) what is store procedure ( also difference. between function and procedure)
- 18) you knw css html then tell me what is use of div tag
- 19) how you embeded css
- 20) what is react js and why you use react for frontend
- 21) They give me one puzzle  
There are 25 horses among which you need to find out the fastest 3 horses. You can conduct race among at most 5 to find out their relative speed. At no point you can find out the actual speed of the horse in a race. Find out the minimum no. of races which are required to get the top 3 horses.
- 22) do you have any question ( i ask about tsys company)

Manager Round questions ( 1 hr 10 min)

- 1) introduce yourself brief including your family and achivements
- 2) what is your project and tell me how you start building project from start to end
- 3) Do you know about design pattern and which design pattern you used in your project ( i used singleton then she told me explain it brief)
- 4) They give me one senario (my project based on ecommerce domain)  
Suppose their are two customers and they want to buy same product but one customer buy that product and product is not avaiable for 2nd customer then how you tell that customer that right now product is not avaiable you can buy sometime later

- 5) Do you know multithreading then I say yes and after that they give me another scenario on that and ask me how you develop code in that you avoid accessing multiple threads at a time (I will explain this scenario with synchronization)
- 5) Tell me any role that shows you perform the leadership role? After my answer they told me you are performing technical or cultural leadership role (conversation a little bit funny)
- 6) you know normalization and how you normalize your database tables in your project
- 7) what are your aspects about TSY's organization
- 8) if I offer you for being part of TSY's organization then how you utilize your skills
- 9) are you comfortable with .NET (I say yes mam but I am more comfortable in Java) after that they ask me how fast you learn .NET
- 10) why are you choose CDAC already you have CS background
- 11) what's your biggest strength and which area you feel improve yourself (after that they introduce themselves and 10 min long discussion on that)
- 12) do you have any questions (I ask about their company and which softwares and technologies are used in TSY's company)

HR (30 min)

- 1) introduction
- 2) Tell me about family background
- 3) Biggest strength and weakness and how you overcome this
- 4) you know about TSY's company after that they give me brief info about company Prama innovations

Round 1:

Intro, HR asked questions related to project, technology used, my participation in project, engg background, engineering project explanation, whether I be able to join company immediately?, Etc.  
, Have I appeared for iv of other firms.

Round 2 :

- 1) intro
- 2) engineering project details
- 3) where have you used data structures in your project?
- 4) linked list vs arraylist major difference
- 5) explain encapsulation
- 6) abstraction vs interface
- 7) explain multiple inheritance in details : why there won't be ambiguity in method call if we use inheritance? (Answer: as we are only providing method declaration and no

implementation, there will be no issue of ambiguity which method is to be used. As implementation is provided by us and not by interface)

8) list, set and map used in project?

9) oops concepts in your project explain in details how did you use them.

10) everything about hibernate, architecture, cascading etc

11) data structures tree, how to traverse it.

12) what is string immutability? Why do we need it?

13) program to reverse the words in a given string.

14) what are views? What are index? And what does index internally do? Clusterd and non-clusterd index

15) diff between primary and unique key

16) types of joins, when do we use self join?

17) diff between natural and inner join

18) find how many duplicate records are there in table, then modified that question to what if i want to print only duplicate records only once.

19) asked related to sub queries by showing me the table.

Round 3 (final iv):

1) intro

2) engg project (asked a lot here, he was asking questions by googling them, as project was to conduct a survey using drones. He asked all the important details and did cross questioning)

3) cdac project, my part, what classes and api did you write in project, explain your work

4) asked to open IDE and write a hello world program.

Then asked ne to explain every single word from package till last line of code. And asked whatever he could ask related to each word in general. And linked other questions too.

eg. String[] args was there then he asked about strings. Then string buffer vs builder.

eg. Static - tell everything you knw about static

eg. and then did variations in main method and asked questions if those changes are valid or not. Etc etc

5) did you write any query in your project (no hibernate did it for us). what is hibernate and then what is jpa?

How jpa us different from hibernate? (JPA is specifications and hibernate provides implementation to jpa)

6) what is ORM? Dependency injection? IOC? Tell me from your project how did you inject dependency of service to controller.

7) synchronisation basic

8) http requests? Get put post delete. Differences amongst them?

9) can you use get request to perform delete operation?

Do your spring boot app recognise the type of request?

If yes how? And if not then how does it perform operation?

10) what are threads? And inter thread communication basics.

Source.One (Pune Region)

Name: Akshay Bachhav

First Round: numerical, verbal ,technical aptitude test.

Second Round: 1 hour, 3 problems, 30 Dec 2022

Live Screenshare coding, Given 3 leetcode problems on Google meet.

Interviewer told free to search on Google for syntax related problems

1) <https://leetcode.com/problems/valid-palindrome/>

2) <https://leetcode.com/problems/remove-duplicates-from-sorted-list-ii/description/>

3) <https://leetcode.com/problems/3sum/>

First problem run successfully,

2nd solution was not optimized so told me to make more optimized, asked what is time complexity it.

unable to solve 3rd problem due to time. ;(

ENZIGMA

1- Introduce yourself

- 2- Explain OOps concepts
- 3- What is primitive , non primitive datatypes
- 4- Send a pattern in chat:

1  
12  
123  
1234  
12345

- 5- Write a query to find the max salary
- 6- write a query to find 3rd max salary
- 7- do u know about web development (HTML, CSS

- 8. Drop , Truncate , Delete
- 9. Is there any way to access private method outside the class.
- 10.constructors
- 11.what is data types of queue and linkedlist
- 12. Primary key , foreign key ,  
unique key ... Primary key , unique key null ho skte hai kya ?

Enzigma Technologies Pvt Ltd

- Tell me about yourself
- Tell me about project architecture
- Call by value
- Call by reference
- Diff between c++ and java
- Pointer use in c++ is gotor bad?
- What is abstraction?
- What's interference?
- Abstract and interference diff
- 3 program asked
- 1 pattern program

#1  
#2 #2  
#3 #3 #3

{CODERS}

#4 #4 #4 #4

2 abstraction program

3 array given find missing element

What is sql?

Queries

1 display name which start from the a

2 print the maximum and minimum salary in one query

3 write query fetch the data from the table

Company Name: Enzigma Software

Second Technical round -

- intro urself

- code

```
int arr[] = {23,48,4,55,67,85,4,5,3,90,34,27};
```

print Second highest and Second lowest element  
without built-in func

- What is Inheritance

- Types of Inheritance

- is multiple inheritance supported in java

No then why ??

- What is Diamond prob

- How we can reduced that

- What is interface

- How we declare and achieve abstraction

- if we don't give implementation to the method why we use

- How actually interface provides abstraction to data

- diff bet Delete, Drop & Truncate

- Any que for me



{CODERS}



Ebixcash

Oops concepts

Collection framework

HashMap

Why generics

Servlet

Spring boot annotations

Natural sorting order custom sorting orger

Comparable vs comparator

Constraints in dbs

Acid properties

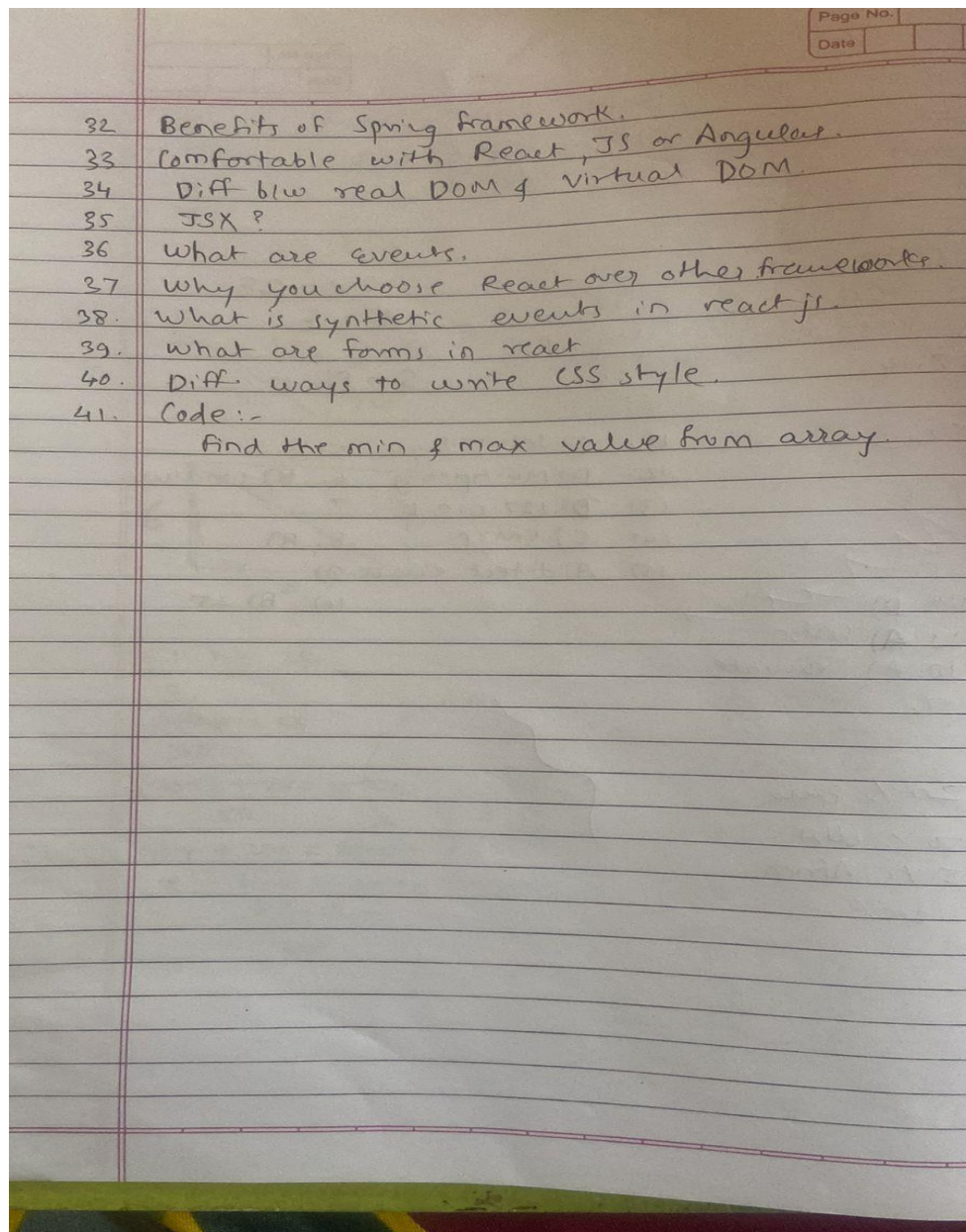


## HeapTrace

### HeapTrace

Page No.	
Date	02/12/2022

1. Introduce yourself.
2. Explain your project.
3. Explain normalization you performed in your project.
4. Diff types of Indexes.
5. How were all your tables connected in your project.
6. Trigger.
7. Cursor.
8. Diff b/w drop & truncate.
9. Which one is faster.
10. Stored procedure. Write one.
11. OOPS concepts.
12. One query. to find highest amt. of order. From customer & orders table.
13. Can we override static keyword.
14.        private keyword.
15. Why is Java not fully OOP.
16. What if we don't write static in main method.
17. Diff b/w abstract & interface.
18. int or Integer which takes less space.
19. StringBuffer & String diff.
20. protected access modifier.
21. private
22. Exception Handling.
23. Diff b/w throw & throws.
24. concurrent modification exception.
25. Explain thread.
26. Is ++ operator thread safe.
27. Diff b/w sleep & wait.
28. JSP.
29. Tags in JSP.
30. Hibernate.
31. Default scope of java bean.



Trinamix

Name :- Rahul Harmalkar

Pattern :- online test (30 min apti + 30 min technical MCQ) 60 Questions

Technical interview:-

1. Intro
2. Which Technology would you prefer?
3. Project related basic explanation
4. OOPS concepts

SQL :-

5. Query to Fetch all the data from table
5. Query to arrange data in ascending/desc order
6. Query to Fetch max salary from employee table(with and without aggregate function)
7. List all the Aggregate Functions in SQL and explain.
8. Tables :- Emp and Dept

Write a query to join both tables.

9. Using above table fetch the data from both the tables of specific department.(Ans :- Join and where clause)

10. How to add data from table 1 to table 2.(Insert and select)

11. Do you have basic knowledge of PL/SQL?

12. What is Procedure and functions?

13. What is the necessity of procedure in DB?

14. How do we call a stored procedure?

SQL over

15. What is your take on learning new technologies.

16. Can you relocate to the given location.

HR :-

1. Intro
2. Any job experience?
3. Explain gap (as I'm 2019 passout) - I said banking exams.
4. Explain repo rate, reverse repo rate.
5. Tell me a unique feature of banking industry.
6. Do you have any questions?

Expleo India Infosystems

Exam pattern :- 55 questions in 37 minutes (Aptitude, logical reasoning and Technical mcqs)

Round 1:

- 1) Introduction
- 2) Introduction of cdac project.
- 3) Which language you are comfortable in?
- 4) Tell me about file handling in java.
- 5) WAP to print all the palindromes between 1-1000.
- 6) WAP to calculate all the occurrences of characters in a string.

Round 2 :

- 1) Introduction
- 2) Why cdac?
- 3) Why civil to it?
- 4) Some questions about my role in previous job.
- 6) Engineering project details.
- 7) Some more non technical questions

Amoeboids

Introduce Yourself

OOPS

Given 2 3 simple codes and guess the output.

Addition of 2 int arrays.

DCL

DDL

3 simple queries

And

1 simple puzzle.

company name =Amoeboids Technologies

round 1(40min)

- 1)Tell me about yourself
- 2)explain oops pillar one by one
- 3)abstract class vs interface (further scenario based que,diamond problem)
- 4)what is hibernate ,jpa difference between them
- 5)coding que on occurrences in string
- 6)coding que on string reverse

round 2(45min)

- 1)Introduce yourself
- 2)Architecture used in your project
- 3)request response flow in your project
- 4)how you maintained your session
- 5)Controller vs rest Controller
- 6)explain Service layer
- 7)explain dao layer
- 8)coding ques on ds implement hierarchial tree as per given node structure by interviewer

round 3(25-30min)

- 1)puzzle of 3ltr 5ltr bottle measure 5ltr water
- 2)approach to find a patten in a string
- 3)scenario based que on parent child referencing ,method invocations between them

BNP Paribas

Round 1

> Reason for change from Non-IT to It



- > About your old work
- > questions on
  - Strings
  - why is string immutable
  - Constructors
  - arraylist
  - diff between arraylist & linkedlist
- >They ask to code 2-3 questions on diff scenerios
  - Fibonacci series
  - Swapping
  - To check your knowledge of programming diff. codes
- >Later based on your code they will ask different question like
  - what is difference between final, finally & finalize and define each of them

BNP Paribas

L1-ROUND

JAVA

- Intro

- que.s on DB part of PROJECT as i mentiined my contribution

1. WAP to check string is palindrome or not

2. WAP to print a fibonacci series

3. WAP to Sort Array

4. WAP to print num. Is prime or not

5. Explain OOPs concept in brief

6. What is encryption and decryption

7. Scenario based

- if assigned a task of uploading thousands file

How will you approach it, how will you handle

If error occur

- if manager assigned task of insert some data

In a table, how will approach the task if you

have all the permissions of command level

and table level.

DATABASE

- referencing project table write a insert query  
For a table consider all the attributes used in Project.  
Asked 5-6 que.s on it with diff. Conditions
- What is stored procedure, function in MySQL
- what is views
- write query to display fname having count greater than 2

L2 Round ( within 1 hr after L1)

Some general scenario questions

Some basic SQL, JAVA and Project related tech. Basic que.s

How you will manage some scenario

5 qualities

5 improvement

Rating in particular tech. And communication

How will you improve it.

BNP Paribas

Round L1:

L

Ddl

Dml

Why DBMS

Join

Explain types of joins in brief

Commands

Union

Unionall



Primary key  
Foreign key

Java

Constructor  
Oops Pilar  
Explain in brief  
Overriding  
Overloading  
Why runtime polymorphism  
Copy constructor  
Inheritance it's type  
Abstract class  
Final  
Static  
Diff between varchar and varchar2  
Diff between varchar and char

Diff between abstract class and inheritance

What is Definition and declaration

It's diff.

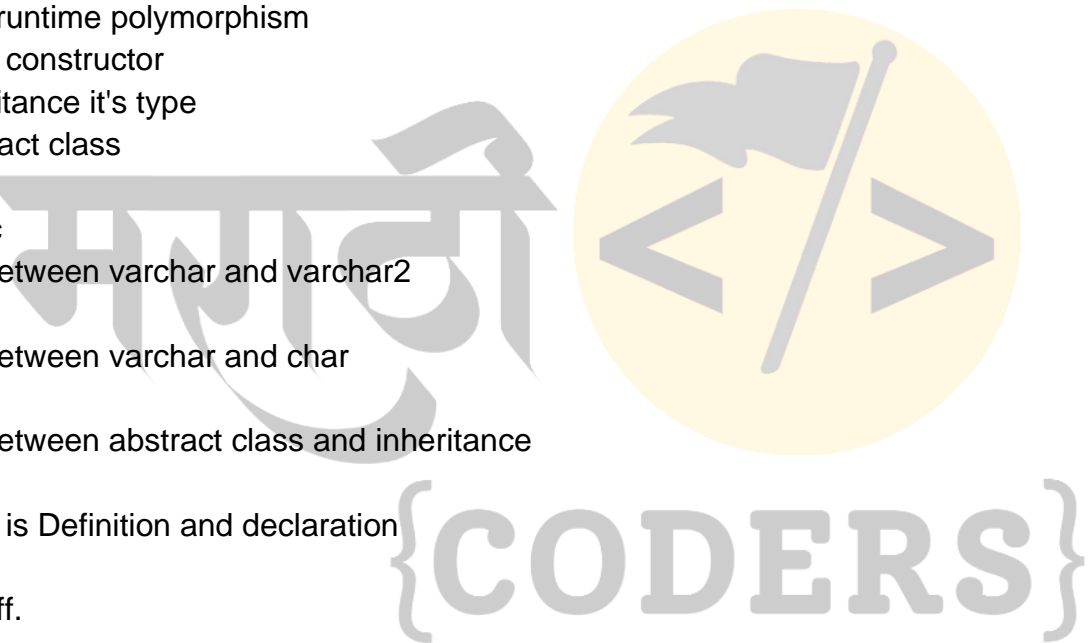
Can we implement multiple inheritance in Java

Why not

Java is object oriented language

C++

Can we implement multiple inheritance in c++



How

Copy constructor syntax

Operator overloading

Can we perform operator overloading in Java

We use pointer in Java

Memory allocation in c++

How we allocate memory in c++

Access modifier in Java

Explain each

Friend function and friend class

Final Finally finalize

Tech tree

Round 1

How to achieve abstraction?

Interface and abstract class code

Linkedhashmap/set application?

Write a code to reverse a frequency of array elements?

Why spring boot? annotations used?

Hibernate ?

Jpa repo and session factory?

How to connect database ?

Pom xml?

Round 2

Steps to create spring boot project?

Hibernate mapping?

Flow of project?

Component in front end ?

Why class components?



{CODERS}

Code addition of two array indexes so that sum will be equal to 10  
loc container ?  
Dependency injection?

Mint

Round - 1

Introduction

What is overriding and overloading?

write an example of it

Inheritance?

Polymorphism?

Basic OOP Question?

#Codes:

#Reverse given String in 3 different ways?

#What is the best way and why?

#Given an array find the max value

->cross Qus on that why used this method

->optimize the code

->use lambda function rather than for loop

#Given an Array how will you find the certain no?

->Searching

#Sort the given array with the algorithm of your choice?

-> I used the Selection sort

-> cross question and told me to dry run it

#Given a string reverse the order of the word?

-> approach: string to string array then rev the array

->Told me to find another approach and consider spaces in the string

Tell me about the project?

Checked the project on AWS and explained the flow and functionality

Round - 2

(Just normal discussion nothing about coding  
only how you are solving the problem)

I want to hire for mid-level experience person why should I hire you?

Your BE in Mech then non-tech job now It is only a few yrs you are not stable in your career why is that?

Why are your academics so weak?

Previous role?

You have Emp class with age, sal, and details stored in the list<Emp>

Find the oldest emp and his salary?

->approach 1: I started with Comparator class -> Don't use it

He did not want the code just how will you approach it?

-If I added Part-time emp, full-time emp and contractor how will you structure the classes who will become class, who will become interface or anything?

-> Back and forth discussion on this point he pointed out my mistake and this made me realise why experience and approach are important, not just coding.

with a few tips and feedback wrapped up the interview

GiantLeap Systems Pvt Ltd

Name of Student: Sameer Gomte

-----  
1. Introduce yourself

2. Why mechanical to IT?

3. Following Code Snippet given and asked the outputn

```
Person obj1 =new Person( );
```

```
Person obj2 = new Person( );
```

```
Obj1.name ="john";
```

```
Obj2.name="smith";
```

```
Obj2=obj1;
```

```
Sop(obj2.name);
```

4. In the above code if public data members visibility is changed to private how will you access it.

5. What is the use of making data members private?
6. Given one more code snippet and asked the output
7. What is the difference between String and StringBuffer
8. What is mutability and immutability?
9. Given on small snippet

```
String s= new String("abc");
s.concat("xyz");
SOP(s);
```

what is the output?
10. In above snippet if I change String to StringBuffer then what is the output?
11. What is Exception and how do you handle it?
12. Do you know about web application?
13. Tell me about your project in brief
14. which technologies you have used in your project?
15. What are various HTTP methods you know?
16. have you used any of these in your project?
17. How you have made connection to database?
18. How you will store data in database?
19. Where you have written your business logic in the project?
20. Have you used interface in service layer?
21. Is it compulsory to use interface,can we write the directly serive class instead of using interface?
22. Then Why do we need interface?
23. What do you write above service class to indicate it as service class?
24. Have you used Exception in your project?
25. Explain how you have written the custom exception?
26. What is Authentication and Autherization?
27. How will you do authentication, have you done it in your project?
28. How will you do autherization,given 10 tasks 5 for admin and 5 for user how will you apply autherization to it?
29. Given data in the form of JSON and asked to write entity class for it.
30. Do you have any questions for me?

Naptol Online Shopping pvt.ltd

Role : Trainee Software Engineer  
First Technical (2nd round)

- Tell me about urself
- What is collection
- Explain hierarchy
- Diff bet List and Set
- Diff bet Array and ArrayList
- Diff bet SortedSet and TreeSet
- Diff Comparable and Comparator
- is TreeSet is Class or Interface
- create HashMap object then traverse by using for loop

```
HashMap m = new HashMap();
```

```
m.put(1,10);
```

```
m.put(2,20);
```

```
m.put(3,30);
```

```
for(Map.Entry itr = m.entrySet())  
{  
    System.out.println(itr.getKey()+" "+itr.getValue());  
}
```

---

- Create HashSet traverse by using iterator

```
HashSet<String> hs = new HashSet<String>();
```

```
hs.add("Ishwar");
```

```
hs.add("Akshay");
```

```
Iterator itr = hs.iterator();
```

```
while(itr.hasNext())  
{  
    System.out.print(itr.next());  
}
```

---

- What is Mutithreding

- How we create
- which is preferred ? why
- create one

```
class MyThread implements Runnable{

}
```

- okk okk clear Ishwar... stop..!! Done..Next (by Interviewer)

- What is Synchronization
- Types of Synchronization
- Explain life Cycle of Thread (all methods & cross que)
- Diff bet Sleep and Join

- 
- Explain Exception Handling
  - its hierarchy
  - ArrayOutOfBoundsException which type of exception
  - FileNotFoundException which type of exception
  - SQLException which type of exception
  - InterruptedException which type of exception
  - Diff bet throws and throw
  - create custom Exception

```
class MyException extends RuntimeException{

    public MyException(String msg)
    {
        super(msg)
    }
}
```

```
class main{

    public static void main(String args[])
    {
        int age = 14;
```

```
    if(age < 18)
        throw new MyException("Not eligible");
    }
}
```

---

Okk Done..Ishwar..We will take u to next round..Be prepare  
As u know all about collection and multithreading and ur  
Theory and practical concepts are good, We will not ask  
about OOPs as that r basic u will know as will.

---

Final round (3rd Round)

- Intro
- JDK, JRE and JVM
- JDK contatints
- windows 10 commands
- Java command alternative
- Fav Keyword
- Static and Final
  - can we declare outer class static
  - can we declare local varibales as final
  - ..likewise 4-5 ques
- System.out.println
  - System is class or variable
  - 10 methos of System class
  - variables of System class
  - System class is concreate or abstract
  - can we inherit
  - ..likewise 3-4 ques

