EDB

1.what is ES6?

2.What is mysql database engine?

3.What is inno db?

4.What is polymorphism and abstraction?

5.What is default method?

6.What is MVC life cycle?

7.Difference between interface and abstact class?

[04/10/22, 9:32:27 AM]

1)What is the difference between route.config and webapiconfig.cs file .

2)What is global.aspx file .

3)What is web api.

4)What is RESTful services in asp.net.

5)What is Executenonquery , ExecuteScalar and Executequery

6)Sql queries - Joins and Subquery .

7)Difference between Authentication and Authorization .

8)Write CLI command to create component .

9)How you have stored password in your database ?

10)Which algorithm you have used for encrypting password .

11)Draw venn diagram for left outer join and right outer join.

IKS health

1)Project

2)What was your role in your project .

3)What is git splash and git fetch command .

4)Queries on joins and subquery .

5)Which version of angular , .net and web api you have used?

6)What are advantages of using web api , rest api .

7)what are features of angular .

8) Why you choose .net as your technology .

9)What is git pull and git clone.

10)What is the different between git push and git commit .

11)How to take data from .ts file to html file in angular .

12) Can we call methods in service file without using .ts file ...if yes , how ??

13)What is component in angular.

14) Have you used any design patterns in your project ....if yes , Which are those and how you have implemented .

15) Write code for login functionality.

Deutsche Telekom

1)Types of joins

2)What are directives in angular.

3) Features of angular

4) BE project

5)How routing is done in angular .

6) Explain what is one way binding and Two way binding in angular.

7) Have you used onclick function in angular .. Write syntax for that.

8) Write syntax for ngModel directive.

9)Draw table structure of your database and explain relations ...Joins query question asked on the same tables.

10) Where you have write connection string in your project .

11) Why to write connection string in web.config file only and not anywhere else.

12) What is left outer join and right outer join.

13)How to get data from service file to .ts file in angular.

Cybage

1) Explain Project

2)Write program for array reverse

3)Sql queries based on joins and sub-queries , IN operator

4)Sorting algorithms in DS

5)Which sorting algorithm is efficient among all ??

6)Difference between Mysql and Nosql .

7)Which are major and minor pillars of oops.

8) Have u used oops concepts in your project...which are those and how ?? (Very imp)

Some important programs

Array reverse

Array sort

String reverse

Count of vowels and consonants

Sentence reverse

Reverse each word in sentence

Maximum and minimum no in array

No of repeated characters in string

Binary search /linear search

All Sorting programs

Binary tree programs / specially mirror image

Fibonacci series

String palindrome

Number palindrome

Design case study - for eg.

Railway ticket reservation system and Students enrolling to course.

[04/10/22, 9:32:28 AM]

1) Explain Your Project

2) Why that particular technology is chosen

3) Write the join queries with 3 tables and 4 tables

4) what are stored procedures? Explain and write Select query

5) What are Views

6) flow of your project

7) Have you done any Validation in your project?

8) \* \* \*

\* \* Print this pattern

\*

9) Reverse the Linked List

10) Find the middle element of Linked List

11) Semaphore and Mutex

12) Producer and Consumer problem

13) Deadlock Condition

14) Optimistic and Pessimistic locking

15) Cascading in Database

16) Write the logic of Bubble Sort, Selection Sort. Why they are called Bubble and Selection Sort.

17) Reverse The String without Using another string

18) What are collections

19) Hierarchy of Collections

20) Difference b/w Hash Table and HashMap

21) Size of empty class

22) Why size of Empty Class is 1 byte

23) Shallow Copy and deep copy,when and how are they made

24) Multithreading in Java

25) Virtual Functions

26) How you achieve multiple Inheritance in C++

27) Diff b/w multiple and multilevel Inheritance

28) Run Time and Compile Time Polymorphism

29) Vptr and Vtable

30) Problem statement:-(In Face To Face Interview)

Outside the Interview Room you are standing in a queue, suppose your cgpa is 7, people standing in front of you have their respective cgpa, suppose first person having cgpa 8 ,2nd person having 4 ,3rd person having 6, and so on, uptill you and The Co-ordinator is calling each candidate on basis of their cgpa for interview,so calculate after how many chance your interview will come, and calculate chance for each of the other candidates

I/P array:- 8 4 6 3 9 7 9.5 2

O/P :- 1 5 6 1 4 0 7

31) File Handling in Java

32) How to serialize Object

33) Diff b/w comparable and comparator

34) dynamic memory allocation in C++

35) dynamic memory allocation for 2-d array

36) bst using Linked List

37) Upcasting and Downcasting,write sample code

38) subscribe function in angular

39) how you show user while registering,email already exist

40) File structure of Angular

41) What is Root Component

42) SDLC life cycle

43) Agile Methodology

44) Problem Statement:-

you are given an array of very large numbers,stored in sequence, 1,2,3,5,6,7,8,9,10........20000, one number is missing from the array, for e.g in above array 4 is missing, write a logic to find missing number, without doing any comparison.

45) String, String Builder, String Buffer

46) Interface and Abstract class

There were 4 rounds of interview and 1 HR

In all of the above questions,they were testing my basic knowledge, and my problem solving approach, as I was trying to solve they were helping me to get to the answers, and for code they just asked me to write psuedo code,logic part.

[04/10/22, 9:32:29 AM]

Core Java :

• Explain your cdac project

• what is model?

• How to navigate from one page to another

• which annotations have you used?

• Comparable vs comparator

• difference between clonnable and closable interface.

• what is marker interface

• what is the use of marker interface

• how can u implement/create you your own marker interface

• Collection framework -

• What is set collection - different types of set collection

• difference between treeset, hashset and linkedhash set

• If I give some input elements --

1,3,2,6,9,10,4 how they will insert three different set collection and if u put loop on it what the different sequence order in three different set collection

• Map collection - Unique quality of hashmap collection

• what is hashing

• can single bucket have multiple keys? How they will arrange

• how can u find out single bucket have same hashcode if I give you 1-30 no

• how can u enter if u have key bt instated of value null u have to put default value.

Program :

• Find string is palindrome or not

• write a program to find square root and it should be integer

i.e. √25 = 5 and also √27 = 5

Puzzles :

• You have 10 boxes of balls (each ball weighing exactly10 gm) with one box with defective balls (each one of the defective balls weigh 9 gm). You are given an electronic weighing machine and only one chance at it. How will find out which box has the defective balls?

DataBase :

• what is leftouter join

• what is self join

• write query on self join

• one emp table content empId and managerId. Employee can be manager find list of employees who is manager

• two tables are given Dept and emp --

Dept --- | deptId | deptName |

| | |

Emp -- | empId | name | deptId | salary |

| | | | |

find name\_of\_dept and avg salary ?

Hr que ---

• Tell me about yourself. Which is not on resume

• are u ready to relocate

• tell me your weekness. How can you overcome

• Tell me your strength

• bad time which you face in your life and what have you done to solve that

• tell me your 3yrears goal, 5year goal and 10 year goal

• In a company if your senior not like you then what will u do.

• do you know about our company?

• any question you want to ask

[04/10/22, 9:32:30 AM]

1. Explain database tables of your project.

2. Difference between hashset and treeset.

3. What is Mean?

4. What are types of data binding in angular?

5. What is NoSQL?

6. What is synchronization?

7. What is deadlock?

Siemens-

1. In which datatype you will store numbers having 20-25 digits(Having number of digits more than any datatype)? And how will you add those numbers?

2. If you create a method which compares two strings, and your end user complains about the result returning false. How will you resolve this problem?

Clairvoyant-

1. Explain classes in your project.

2. How will you solve diamond problem in java?

3. Even though multiple inheritance is not present in java if I give you the diamond problem (for eg. By using interfaces) then how will you solve?

4. Explain annotations used in your project.

5. How internally hibernate fires query on database?

6. Write a query (included group by, having, multi-row function)

7. What is two way binding in angular?

8. What is NoSQL?

9. Give relationships of classes for given problem.

10. What is exception handling?

11. Types of exceptions?

12. Case type questions about try, catch and finally block.

13. What is difference between throw and throws?

14. What is final,finally and finalize in java?

15. If reference of an instance is final then can we modify that instance using setters?

16. Puzzle- If there are 8 balls and one is heavier, in how many attempts you will Get the heavier ball?

Cumulus-

1. Write a program which will count the the repeating elements present inside an array.

2. If you are given two arrays. And you have to compare the element inside first array with elements in second array and if the element is present in second array only once then only print it.

3. Collection framework general questions.

Dassault Systems-

1. Exception handling in c++.

2. Types of exception in java.

3. Explain OOPS concepts with examples.

4. What is upcasting?

5. Some cases about upcasting.

6. What is difference between runtime polymorphism and compile time polymorphism?

7. Some case questions about inheritance.

8. What are types of hierarchy?

9. How will you reverse a linked list?

10. What is index in mysql?

Simply compete-

1. Explain your project.

2. Explain flow of login function from backend to frontend of your project.

3. What are types of binding in angular?

4. What is two way binding?

5. What is MEAN?

6. How will you get second highest element in an array?

Neiron-

1. Write a program to convert first and last letter of a string in uppercase.

2. Write a program to convert first and last letter of all words of a string in uppercase.

3. If 1m customers of facebook are not able to login, then how will you handle this problem.

4. If you develop one email application then how would you secure that from server crashing after multiple request?

Dkatalis-

1. Explain multithreading in node.

2. What is agile?

3. Explain Spring MVC

4. What is NoSQL?

5. Explain your project.

6. What is MVC?

7. What are types of join?

Veritas-

1. What is STLC?

2. Write 5 test cases for a program.

3. Explain OOPS concepts you observed today after coming here.

4. What is synchronization

5. Linux commands

6. Write a program to copy a file from one directory to another and giving message on successful copying of file, by comparing file size and contents of the file.

[04/10/22, 9:32:31 AM]

-Introduce Yourself

-Explain Your Project

-What's your role in project

-What is Angular & Why Angular!!

-What is Component in Angular?

-Some linux commands! which you use!

-Collection Framework( Basically Diff b/w -Various collection framework(Imp-when to use which collection)

-Multithreading( where do you implement multithreading in your project)

-What is Autowiring!?..Types of Autowiring

-Abstract class vs Interface

Inspirage

-Explain your Project

-Draw Flow-diagram of your project

-explain relationships between your tables

-Consider a module of library management in Which you have to write code for taking data from librarian and display that data.

-How you are validating data on serverside

Dkatalis labs

-Introduce yourself

-Second,Third highest salaries

-Explain Concept of Normalization and Denormalization

-Diff b/w Stored Procedure and Function

-Multithreading

-Scenario based table on which we have to perform joins

-Transient and Volatile in Java

-Serialization

-if we declare same method in both the interfaces and implement that both interface then what happen and why?

-Write sorting alorithm(Selection Sort,BubbleSort)

-Details Question on each and every project functionality(How you apply server side validation ,how you apply client side validation)

-What is SQL injection?

[04/10/22, 9:32:31 AM]

Technical 1-

1. I have give you certain numbers with repeated and non repeated values.How will you find the second largest amongst them ?

2. (After saying maths and physics are favourite subjects) What do you know about differentiation and integration ?

3. What do you know of Laplace transform?

4. Puzzle on buckets and water.Seperate 4 litres when buckets of 5 litres and 3 litres capacity are given.

5. What is your understanding on database.

6. Why you left mechanical stream ?

7. Do you think you have given justice with whatever knowledge you acquired in Engineering ?

Technical 2-

1. Program to find the largest number mentioned in your resume. There might be some alphanumeric elements present in your resume.

2. What are your goals?

HR round-

1. Introduce me about yourself.

2. What are your skills. (Ex. Java , .Net)?

3. Where do you stay?

4. What are your weaknesses?

5. Information about family.

6. How much is your monthly expenditure?

7. Is there any event occurred in your life that

affected you?

8. Before coming this how interview you appeared?

9. Why you were rejected in that/those?

[04/10/22, 9:32:32 AM]

Technical interview:

1)collections

2)jvm architecture

3)method overloading

4)Hashmap and hashset difference

5)joins(mainly inner join)

6)find second highest salary

7)how can u achieve abstraction in ur project

8)what is indexes?what is the use ??

9)what is cursors and triggers ?give a real time example to it?

10)what is docker?give me example?

11)what is kubernetes ?which is more powerful among docker and kubernetes why??

12)explain the steps to upload the data in the github

13)why microservices ?what is the use??

14)what is jenkins??

15)what is devops??what developer team wants??what operations team want??

Managerial round:

1)for suppose you r the project team leader manager asked to complete the project in two days how can u deal with this situation?

2)suppose your team mate is dominating you then how can u handle him??

3)Explain me ur cdac project and btech project

HR

1)Tell me about yourself?

2)what do u know about our company ??

3)which field u r interested in software or testing ??why??

[04/10/22, 9:32:33 AM]

TECHNICAL INTERVIEW 1

1) Take an Array with 4 elements and divide that array into 2 sub arrays, such that sum of the elements present it the sub arrays should be same and write code for it in Java

2) Now take the unsorted array having odd number of elements and divide it into sub arrays were sum of the elements present in the sub arrays should be same and write code for it in Java

3) Now extend the array to limited infinity and divide into sub arrays were sum of elements should be same and write the code for it in Java

4) Now replace all the integers with characters and find the second highest occured character in the Array and write the code for it in Java

5) What is Singly Linked List ?

6) Write a code to detect loop in Linked List having loop at the 50th node and it is pointing to 3rd node

7) Threading, Segmentation

8) Mean Stack Full form, What is Express in this ?

9) A string of repeated characters e.g. aaabbbcc is there, you have to give me output as a3b3c2 in Java

10) Draw the OSI layer.

11) Explain each and every layer in it

TECHNICAL INTERVIEW 2

1) Tell me about yourself

2) You have engineering in CSE, then what was the need to join CDAC again ?

3) In which language you are comfortable ?

4) Reason of your education gap in engineering ?

5) Why there is sudden downfall in 10th and 12th marks ?

6) There is an aplha numeric string "Feb2020" l, extract integer from it write code for it in Java

7) Now extend this string "Feb2020Feb2019" you have to find the highest integer from this string and write code for it in Java

8) Now you have the resume in string format with you, you have to find the 2nd highest integer from this resume

9) Right now it's 12:13 and you are going to die on 12:15 l, what you'll do ?

HR Interview

1) Tell me about yourself

2) Do you want to pursue any Higher studies ?

3) What you have done 1 year engineering gap ?

4) What do you know about GS Lab ?

[04/10/22, 9:32:34 AM]

\* Technical round 1

1. Give me brief introduction about your project.

2. Why you chose these specific technologies to do your project? What are their advantages and disadvantages.

3. What is your role in your project.

4. Where you had implemented oops concepts in your project?

5. WAP for encapsulation and abstraction. And tell difference between those.

6. Fine and tell me an example of encapsulation from this hall.

7. Write a program to swap adjacent characters from an array.

8. Write a program to implement stack using linked list.

9. There are two ropes which individually takes 1 hr to completely burn. You only have matchstick and you have to perfectly find the intervals of 45, 15, 5 mins.

(\* There is no marking for measurements of ropes.)

10. How much would you rate yourself in datastructure?

11. How many types of sorting and searching methods you know ?

12. Programming logic of merge sort and quick sort.

13. Time complexities of all sorting algorithms.

\* Technical round 2

1. Tell me about yourself in a technical manner.

2. Explain your project in details.

3. Draw ER diagram of your project.

4. In database how your tables got created.

5. Why you chose MySQL? Why not mongo?

6. What are constraints in MySQL?

7. What is diff between unique key and primary key?

8. Data provided by them and asked to normalize upto 2NF form.

9. Diff between normalization and denormalization

10. Couple of database queries.

11. Write a program to solve a maze problem.

12. Write a program to find all combination of missing placed digit.

13. Write a program to colour matrix with 3 colors that no adjacent block will have same colour.

14. What do you know about cloud computing? Aws?

15. What is EC2 instance in AWS

16. What is agile methodology?

17. How you deployed your angular on cloud?

( There were some scnerio based questions for which i have to design a automated system as a solution.)

(With the help of technologies you learnt in cdac which daily life problem will you try to solve first?)

\* Hr round

1. Tell me about yourself.

2. Why there is that much difference in your ssc and graduation marks?

3. What is your opinion on your family?

4. Do you think our education system completely justifies persons ability and intelligence?

5. If no then what are the things you would like to change to make it perfect.

6. Sell me your project.

7. How would you explain Mean stack to a 8yrs child.

8. If you found your colleague is not doing work he was supposed to do what will you do?

9. I can get many better candidates than you then why should we hire you?

10. If i'd to give you anything you ask what will be your dream job will look like.

11. Why AthenaHealth?

12. Do you know any projects AthenaHealth worked on or working on?

13. What you do in your leisure time?

14. How you motivate yourself in stressful situation?

15. What is the biggest mistake of your life?

16. If you get a chance to change past what will you change?

[04/10/22, 9:32:35 AM]

INTERVIEW QUESTIONS

1st Technical (around 90 mins) :

- Tell me something about yourself.

- Oops concepts.

- Inheritance in java

- Difference between final, finally and finalize.

- Can you declare class as final if yes why and when do we declare it as final?

- When is finalize method called.

- What is garbage collection?

How do you call it explicitly?

- When do you do garbage collection explicitly. What is it's need.

- Snippets on constructer calling.

- What is polymorphism?What are it's types? Explain in detail?

- What is difference between String , String buffer and String Builder.

- Snippets on String

- What is multithreading?

- Snippets on multithreading.

- Tell me about your project

- Which part of the project did you work on

- Why did you prefer java?

- What do you know about java beans

- What is hibernate.

- what is difference between spring hibernate and spring boot

- Why did you use hibernate in your project

- How many tables are there in your project. List them.

- Explain the relationship between tables

- How did you normalize your project. Explain with an example.

- Which is your favorite module? Why?

- What did you learn in AWP module.

- Which version of bootstrap,css and HTML did you learn and which did you use in your project

- What is deadlock? How can you overcome it

- Explain the structure of an HTML page.

- List some tags in HTML. Is it necessary to close all tags.

- What is DDL in database.

- Write all commands in MySQL and it's classification like DDL,DML etc and explain each command.

Puzzle : You have 10 bottles one of them contains poison. What is the minimum number of rats you will need to figure out which bottle contains the poison given the time taken for the poison to show it's effect is 24 hrs and you have to tell the result in 24 hrs.

2nd Technical (around 60 mins):

- introduce yourself

- Tell me about your project

- How many tables are there in your project. List them and the columns in your tables.

- Relationship between tables

- Asked me a few queries related to the tables.

- Which part of the project did you work on?

- What is transaction in database.

- What are different types of joins. What is difference between outer join and inner join

- can there be multiple statements/commands in a transaction

- what is the use of transaction

Can you write a transaction.

- Which commands can be rolled back

- Write collection hierarchy

- What is difference between list and set

- What is difference between arraylist and linkedlist

- What is difference between iterable and iterator

- What is difference between comparable and comparator

- snippets on exception handling

- how will you handle arrayindexoutofbound exception

- how will you handle nullpointer exception

- program to find missing element from 2 arrays with minimum time complexity

- program to find missing element from an array

Puzzle : Divide a clock using two straight lines such that the sum of numbers in each division is equal.

3rd Technical + Hr round (around 15 mins) :

- Introduce yourself.

- Family background.

- Where do you see yourself 2 years from now

- Complex database join queries

Puzzle : You are given two sand clocks of 4 and 7 minutes each.

Can you count continuous 9 minutes using both the clocks.

- How many total no of squares are there on a chess board?

[04/10/22, 9:32:36 AM]

Introduction

Method overloading

Operator overloading

Overriding (Compiled time, runtime)- a lot discussion here

Exceptions(types of exceptions, compiled time and runtime)

Arrays

WAP of number of occurrences of an element in array

WAP Sorting

WAP of second largest element in an array

Write SQL query joins, number of depts, ascending order

[04/10/22, 9:32:37 AM]

First Round :

1. Introduce Yourself.

2. What is Final and Finally keyword?

3. What is static keyword and static method?

4. What is method overloading and method overriding?

5. If a method is defined as final and a subclass overrides the method what will happen?

6. What is SQL?

7. Types of SQL query?

8. Two problems

1. In an unsorted array find the second largest number.

2. In an array return the number which are repeated odd times.

9. Write a query to find number of employees per department.

[04/10/22, 9:32:38 AM]

What is indexes

What it time complexity of diff data structure explain

Code

Query

.net concepts

Project explanation with spring security

Annotation

Binary search tree real life example .....

[04/10/22, 9:32:39 AM]

Questions- project, c# basic, told to write database queries , basic of Mongodb, basic questions of java (oops, multithreading, etc), trigger , cursors, angular

features of react , mysql

,query on today's date , cross questions on join , difference array and arraylist. string and string buffer

most imp each ans relate to our project,

questions on event in react , write a event on notepad

early binding let binding

[04/10/22, 9:32:39 AM]

1.Tell me about yourself in brief

2.oop concepts

3. Polymorphism real life examples

4. Write a code for inheritance

5. Write a code polymorphism

6. SQL query

7. why we perform normalisation

8.qsns on joins

9.type casting

10. Stack and queue difference

11. Real life examples of stack and queue

12.operations performed in stack

13.sql alias

14.foreign ,composite and primary key

15.why mechanical to IT

16.any qsns