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So, these were the questions asked to my subscriber.

Hello mam, yesterday I had my TCS Prime interview

It was around 1 hour , and there were three panelists
TR+MR+HR

As this was for prime role, so TR round was a Little long approx 40-45 minutes, followed by MR (15 minutes) and then HR round

Here are the questions:

Technical Round -

1. Tell me about yourself
2. From where you are
3. Which programming language is your favourite
4. What is JVM ?
5. Can we use pointers in Java
6. Explain collection frameworks and how they are useful
7. Java vs python
8. Difference between abstract class and interface
9. System.out.println
10. Use a real world scenario and implement priority queue orally
11. What was your project
12. What you think , your project can be useful in future
13. Why mongodb only
14. What is responsive design

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15. Explain client server architecture
16. What is DOM and BOM
17. Explain final, finally, finalize
18. Is Java pure object oriented programming?
19. What is JRE and JDK
20. Applications of Stack in real life
21. What are the ACID properties
22. What is RDBMS
23. What is Normalisation
24. What is virtual memory in OS
25. How many types of topologies are there in Networks
26. What is page fault

And mam there were two coding problems they given to code in front of them

1. Find the maximum subarray sum (Kadane algo)
2. Write a program to search an element in an array

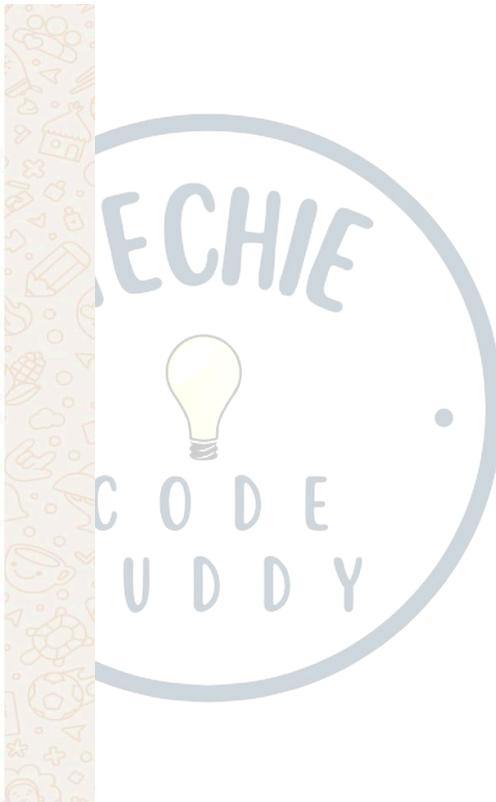
Now MR took the panel

1. He asked me to showcase my project, as it was based on web development so I saw them
2. Any certification?
3. Tell me your interest about AI and ML
4. You are good at Web development but what if we give your projects based on AI and ML ?
5. From where you got the idea of your project
6. What challenges you faced during your project
7. What is your long term goal

Now mam, HR took the panel

1. How's your day passing
2. Do you love coffee or tea
3. What you know about TCS
4. Why only TCS
5. What is your biggest strength
6. Are you willing to relocate
7. Ok with night shifts ?
8. Any questions from me ?

And it's done , it went really well, now I m waiting for results



Ans 1: The "Tell me about yourself" question is typically the opening question in an interview. It's your opportunity to set the stage and give the interviewer a summary of who you are professionally. Also by using the proper strategy you can direct your interview as you want.

The answer should follow the PPF framework, where P stands for Present, next P stands for Past, and F is for Future.

1. **Present:** Briefly describe your current status along with your name (e.g., recent graduate, key skills).
2. **Past:** Mention your education, any relevant projects, and internships.
3. **Future:** Explain how you are a good fit for the company and why you are excited about this opportunity and how it aligns with your career goals.

Sample Answer 1:

Present: "Hello, my name is [Your Name]. I recently graduated with a Bachelor's degree in Computer Science from [Your University], where I developed a strong foundation in software development, data structures, and algorithms. During my time at university, I focused on honing my skills in various programming languages, particularly Python and Java, and took part in multiple coding competitions."

Past: "In addition to my coursework, I completed a project on developing a web application for a local business, which helped streamline their customer management system. This project involved using HTML, CSS, JavaScript, and a backend setup with Node.js and MongoDB. I also completed an internship at [Company Name], where I worked on a team that developed an internal tool to improve workflow

efficiency. This experience taught me the importance of teamwork and meeting deadlines."

Future: "I'm excited about the opportunity at [Company Name] because I admire the innovative work you are doing in [specific field or project]. I am eager to bring my skills and enthusiasm to your team and contribute to projects that make a real impact. I am particularly interested in learning more about [specific technology or aspect of the job] and am committed to continuous learning and professional development."

NOTE: You can Modify the answer based on your need

Sample Answer 2:

Present: "Hello, my name is [Your Name]. I am a recent graduate from [Your University] with a degree in Information Technology. Throughout my academic career, I have been passionate about learning new technologies and applying them in practical scenarios. My primary skills include proficiency in Java, Python, and SQL, and I have a keen interest in web development and cybersecurity."

Past: "During my final year, I worked on a capstone project that involved creating a secure e-commerce platform. This project allowed me to gain hands-on experience with full-stack development using React for the frontend and Django for the backend, along with implementing security measures like encryption and secure authentication protocols. Additionally, I interned at [Company Name], where I assisted in developing a mobile application that enhanced user experience through a more intuitive design and better performance."

Future: "I am very excited about the opportunity to work at [Company Name] because I have been following your innovative projects in [specific area]. I believe my background in web development and cybersecurity,

combined with my enthusiasm for technology, will allow me to contribute effectively to your team. I am eager to learn from experienced professionals and grow my skill set in a dynamic and challenging environment."

Ques 2.

Ans: I am from [This City, State] , Which is famous for [This Thing]

Ques3.

Ans: Sir, My favourite Programming language is [Your Favourite Language], also currently i am working on [Python], so familiar with python basics as well.

(If you are really familiar with another language, then only add this statement)

Ques4.

Ans: JVM (Java Virtual Machine) is an abstract machine. It is a specification that provides runtime environment in which java bytecode can be executed.

JVMs are available for many hardware and software platforms (i.e. JVM is platform dependent).

What is JVM

It is:

1. A specification where working of Java Virtual Machine is specified. But implementation provider is independent to choose the algorithm. Its implementation has been provided by Oracle and other companies.

2. An implementation Its implementation is known as JRE (Java Runtime Environment).
3. Runtime Instance Whenever you write java command on the command prompt to run the java class, an instance of JVM is created.

What it does

The JVM performs following operation:

- Loads code
- Verifies code
- Executes code
- Provides runtime environment

Ques 5.

Ans:

Reference 1: [GFG Article](#)

A pointer is a variable which can hold the address of another variable or object. But, Java does not support pointer **due to security reason**, because if you get the address of any variable you could access it anywhere from the program without any restriction even variable is private.

Ques 6.

Ans: The Collection in Java is a framework that provides an architecture to store and manipulate the group of objects.

Java Collections can achieve all the operations that you perform on a data such as searching, sorting, insertion, manipulation, and deletion.

Java Collection means a single unit of objects. Java Collection framework provides many interfaces (Set, List, Queue, Deque) and classes (**ArrayList**, Vector, **LinkedList**, **PriorityQueue**, HashSet, LinkedHashSet, TreeSet).

What is Collection in Java

A Collection represents a single unit of objects, i.e., a group.

What is a framework in Java

- It provides readymade architecture.
- It represents a set of classes and interfaces.
- It is optional.

What is Collection framework

The Collection framework represents a unified architecture for storing and manipulating a group of objects. It has:

1. Interfaces and its implementations, i.e., classes
2. Algorithm

Ques 7. Java vs Python

Difference	Python	Java
✓ Typing	Dynamic	Static
✓ Code Readability & Formatting	Indentation-based	Cirly braces-based
✓ Performance	Slower	Faster
✓ Portability	Cross-platform (via interpreters)	Write once, run anywhere
✓ Security	Good	Better
✓ Mobile App Development	Limited	Strong (Android)
✓ Programming	High-level	High-level
✓ Salary Trends	Rising	Stable
✓ Speed and Memory Usage	Consumes more memory	Optimized
✓ Availability of Libraries and Frameworks	Rich libraries	Extensive framework
✓ Community and Popularity	Growing Rapidly	Established, slightly declining

Ques 8. Ans:

	Abstract Class	Interface
Type of methods	Abstract class can have abstract and non-abstract methods	Interface can have only abstract methods. Since Java 8, it can have default and static methods also.
Type of variables	Abstract class can have final, non-final, static and non-static variables	Interface has only static and final variables.
Implementation	Abstract class can provide the implementation of the interface.	Interface can't provide the implementation of an abstract class.
Inheritance vs Abstraction	An abstract class can be extended using keyword "extends".	An interface can be implemented using keyword "implements".
Multiple implementations	Abstract class can provide the implementation of interface.	Interface can't provide the implementation of abstract class.
Multiple Inheritance	Abstract class doesn't support multiple inheritance.	Interface supports multiple inheritance.
Accessibility of Data Members	A Java abstract class can have class members like private, protected, etc.	Members of a Java interface are public by default.

Ques 9. Explain System.out.println .

Ans: ava System.out.println() is used to print an argument that is passed to it.

Parts of System.out.println()

The statement can be broken into 3 parts which can be understood separately:

1. System: It is a final class defined in the java.lang package.
2. out: This is an instance of PrintStream type, which is a public and static member field of the System class.
3. println(): As all instances of the PrintStream class have a public method println(), we can invoke the same on out as well. This is an upgraded version of print(). It prints any argument passed to it and adds a

new line to the output. We can assume that
System.out represents the Standard Output Stream.

Ques 10.

Ans: Priority Queue ([Refer this link](#))

Ques 11.

Ans: His project was full stack website (using Html, css, reactjs, mongoDB, APIs etc

Ques 12. Project future scope, simply tell them how your project is helpful, and what i have shared in video

Ques 13. Why MongoDB only ?

Ans: Refer This link : [Click me](#)

Ques 14. Responsive Web Design: [Click me](#)

Ques 15. Client Server Architecture: [Click here](#)

Ques 16. [DOM](#) and [BOM](#)

Ques 17. [Final](#), [Finally](#), [Finalize](#)

Ques 18. Java pure object oriented or not ? [Answer here](#)

Ques 19. [What is JRE, JDK](#)

Ques 20. Applications of Stack in real life - [Click](#)

Ques 21. ACID properties - [Click here](#)

Ques 22. RDBMS: [Click Here](#)

Ques 23. Normalization: [Click Here](#)

Ques 24. Virtual Memory: [Click Here](#)

Ques 25. Topologies: [Click here](#)

Ques 26. Page Fault: [Click here](#)

Two Coding Questions:

1. Kadane's Algo: [Click Me](#)
2. Binary Search: [Click Me](#)

MR Round Questions.

1. **Project Showcase:** Make sure to deploy your projects and drop it on Github Account as well.
2. **Any Certification:** Be honest, if have, then only say yes
3. **Interest in AI & ML:** Based on you
4. **You are Good at**

Ans: Yes sir, as of now I am working on Full Stack web development, but if the company will give me projects based on AI and ML, i will surely like to contribute into it because I will learn new technologies and skills with this, and it would be helpful for me at later point

5. **From where you get the idea:** Always be ready with a logical story, that can be relate to real world
6. **Challenges:** Don't deny for this, simple explain that sometimes i faced some challenges, stuck in bugs, code was not working, installation problems etc, so i took the

help of my seniors, friends, etc (This show, you value others., you are a team player)

7. Ok with night shifts ?

Ans: When answering the question "Are you ok with night shifts sometimes?" in an interview, it's important to be honest and align your response with your true willingness and ability to work night shifts. Here are a few strategies for crafting a response:

1. If You Are Okay with Night Shifts

If you are genuinely okay with working night shifts, express your willingness and highlight your adaptability and any relevant experience.

Example Answer:

"Yes, I am okay with working night shifts sometimes. I understand that flexibility is important in this role, and I'm adaptable to different schedules. In my previous job, I worked several night shifts and managed my responsibilities effectively, so I'm confident I can do the same here."

2. If You Are Okay with Night Shifts but Have Preferences

If you are generally okay with night shifts but have a preference for certain schedules, be honest while still showing your willingness to accommodate the needs of the job.

Example Answer:

"I am okay with working night shifts occasionally. While I do prefer a regular daytime schedule, I understand that night shifts may be necessary at times, and I am willing to accommodate this when needed."

3. If You Are Not Comfortable with Night Shifts

If you are not comfortable with night shifts, it's best to be upfront while showing that you are still interested in the role and willing to find a compromise.

****Example Answer:****

"I have to be honest that night shifts are challenging for me due to personal reasons. However, I am very committed to this role and would be happy to discuss how we can work out a schedule that meets the company's needs while also accommodating my limitations."

4. If You Are Open but Need More Information

If you need more information to decide, express your openness while seeking clarification.

****Example Answer:****

"I am open to working night shifts sometimes, but I would like to understand more about how often they occur and the typical schedule. This will help me better assess my ability to meet the job requirements."

Additional Tips

- **Be Positive:** Show enthusiasm for the role and emphasize your flexibility and adaptability.
- **Be Honest:** Honesty is crucial. If you are not comfortable with night shifts, it's better to communicate that upfront rather than face difficulties later.
- **Ask Questions:** Feel free to ask for more details about the night shifts. Understanding the expectations will help you make an informed decision.

By tailoring your response to your true willingness and the needs of the job, you can provide a thoughtful and honest answer to this question.

Ques. 8 Willing to relocate ?

Ans: When responding to the question "Are you willing to relocate?" it's essential to be honest and transparent about your willingness to relocate for the job. Here's a structured approach to answering:

- 1. Express your openness to relocation:** Clearly state whether you are open to relocating for the job opportunity.
- 2. Explain your reasons:** Briefly explain why you are willing or unwilling to relocate.
- 3. Clarify any conditions or preferences:** If you have specific conditions or preferences regarding relocation, such as proximity to family or specific locations, mention them.
- 4. Reiterate your enthusiasm for the job:** Regardless of your willingness to relocate, express your enthusiasm for the job and your commitment to contributing to the company's success.

Sample Answer:

"I am definitely open to relocation for the right job opportunity. I understand that sometimes relocation is necessary to pursue career growth and take on new challenges, and I am fully prepared to make that commitment. I believe that exploring new locations and environments can be an enriching experience both personally and professionally.

However, I do have some considerations regarding relocation. While I am open to moving to new cities or regions, I would prefer to be located within a reasonable distance from my family or in an area with access to amenities and a supportive community. That being said, I am flexible and willing to consider various relocation options to align with the needs of the job and the company.

Overall, my primary focus is on finding a role where I can make a meaningful contribution and continue to grow and develop in my career. I am enthusiastic about the opportunity to join your team and am fully committed to relocating if required to pursue this exciting opportunity."

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