Placement Experience with SAP Labs

Interviewee 1:

- **Round 1(Coding Test):**

It consisted of 2 coding questions in 45 min.

1. Write an algorithm to find the number of occurrences of needle in given positive number haystack (Variation of KMP)
2. A company has a sales record of N products for M days. The company wishes to know the maximum revenue received from a given product of the N products each day. Write an algorithm to find the highest revenue received each day.

   As the level of questions is quite easy so you have to give the best-optimized solution taking care of the time taken to solve them.

   All the interviews were carried on MS Team.

- **Round 2(Technical Round 1):**

It was of 45 min. First, the interviewer gave his introduction and then asked mine. After that, he asked some questions on OOPs.

1. Which language I use, are you comfortable with java and if not will you learn it.
2. What is C++?
3. Name some **pure** object oriented programming languages.
4. What is polymorphism and its types?
5. Explain compile time polymorphism with code and examples. He made some changes in the code and asked like what will be the output, which error etc.
6. What is virtual function? Explain function overloading with code.
7. https://www.geeksforgeeks.org/convert-a-binary-tree-to-a-circular-doubly-link-list/
8. https://www.geeksforgeeks.org/count-triplets-with-sum-smaller-that-a-given-value/
9. Any real life experience where you have to decide which DS to use and how you do it. What does Google maps use?
10. Tell me some ML algorithms you know or you have worked on. What did they do?
11. At the end he asked 2-3 puzzles.

- **Round 3(Technical Round 2):**

The duration was 40 min. After the introduction, he asked me to briefly tell about either my project or internship. I summarized about my project, what I have done, motivation, technologies used, challenges etc. he was quite impressed with the project. Then he asked some questions

1. What is multiprocessing? Its advantages. Justify
2. What is OOPs? Its aim.
3. Pillars of oops with example.
4. Explain different Visibility modes. And write some code snippet for protected mode.
5. What is Inheritance? Explain with code and example.
6. Difference between array and linked list. Advantages and disadvantages of both over each other.
7. BST and its implementation.
8. 2 mathematical mcq's one was based on G.P. , Evaluate $\sqrt{20+\sqrt{20+\sqrt{20}}}$........
9. What are the 2 types of dataset in ML?

10. https://www.geeksforgeeks.org/reverse-linked-list-groups-given-size-set-2/

11. Tell me something about REST protocol.

12. What SAP works on and the latest technology.

- **Round 4(Managerial Round):**

Duration was 30 min.

He asked me about my pointers and extra-curricular activities. He asked about my college experience and the situation in the pandemic times, about classes, labs etc. then he asked my favourite subjects in college and few questions

1. Which OS are you comfortable with? What about UNIX.
2. Different commands used in UNIX.
3. What options can we use with ls command?
4. How do you view hidden files?
5. Suppose you are in a team and you have conflict with one team member. How will you manage to work? What will be your priority?
6. Suppose you are in a situation where you have 2 tasks. One at work and other at home, both important. Which will you do first and why? What if there's an emergency? How will you balance?
7. N queen implementation (backtracking). He wanted to know the thinking process. What ds will you use, variables etc.

Round 5(HR Round): This round was only for 25 min. We had a light discussion.

1. Introduction
2. Why you did MCA and didn't look for job after BCA?
3. What did you do in internship? What was your role?
4. Was it team or individual?
5. How did you divided the given tasks between team members?
6. Apart from academics what other latest technology you learned and why?
7. Strength and weakness. Justify
8. How did you overcame your weakness? What measures you took?
9. Is this your first interview? (I said no its my second, I did gave an amazon interview)
10. What you learned from your amazon's interview? Experience
11. How you overcame and prepared for SAP labs.
12. Any real life example where you faced challenge at work or team conflict.
13. What you learned new about SAP after we came to your campus. I don't want to know the definitions that is available online.
14. So I told her everything they told us in the pre placement talk. She was impressed by this that I have absorbed the PPT completely.