

## Summary for day 2

Today the day was started from koushik sir about yesterday's stuff like what is skill, what is problem solving, in problem solving what are all the steps we follow to solve the problem. In solving the problem the following are the steps we need to follow. They are as follows

1. Do not avoid the problem
2. Understand the problem
3. List the constraints (set of rules)
4. Plan the steps according to that constraint
5. Write down the operations
6. Finally solve the problem

After these conversations for the first half of the class koushik sir gave many problem solving games like

1. Box game (puzzle)
2. Sudoxo game
3. Bridge crossing game

### Box game (puzzle)

Explaining about the games, in the box game he wrote one to eight numbers in each box without the specific order randomly. In that we have to move each box one at a time in a horizontal or vertical line. In each adjacent move only one box is moved. For each move the steps should be counted. We have to keep on moving the each box until the desired output has been reached. So he gave that task to everyone and he told us to identify how many moves are there to reach the desired output. Then he split the students into groups so that it will be more interested and we people also get interacted. In that session each group is having four members, everyone started solving the puzzle. In my group each one were discussed about the problem and started solving it by wrote on the notebook. For more than ten minutes we keep on solving it but we won't get the solution. Then koushik sir gave the idea to tear the paper and write down the numbers from one to eight on each paper and place them in the table and arrange it by moving the papers so that the solution will be found quickly. Then we people tried based on koushik sir's statement and found the solution. Finally we achieved the desired output with twenty moves.

Conclusion: In the above said game we understood that rather than writing each single step on the notebook which is a difficult task and also it takes more time. So we need to approach simple and easy way to solve the problem. So before solving any problem first we need to understand the problem and based on the constraints we have to think in all the ways which is time consuming one to get the solution.

### Sudoxo game

In this session koushik sir came up with the puzzle game where everyone is familiar with it. So he drew a box which contains nine rows and nine columns. In that each box he randomly wrote a numbers. In this problem we have to give the output where each rows and columns must have nine

numbers and the constraint for this problem is one number should not be repeated again and also each grid which contains three rows and three columns where the numbers also should not be repeated again. say for an example, koushik sir wrote one to nine numbers in each rows and columns and grid.

Conclusion:

In the above said game we learned that where there is a more number of boxes are already filled we have to find the least number so that the problem will be solved quickly. say for an example, if a grid which contains nine out of eight numbers, so there is easy chance to find the missing number.

### **crossing the bridge game:**

In this game, there are six bridges which is surrounded by water. we need to cross the bridge with the constraint that we should not come back once we started crossing the bridge should not return in the same path. so we guys were started understanding the problem with the given constraint and discussing what are the ways are there to cross the bridge.

Conclusion:

The conclusion for this game is there is no way to cross the bridge with the given constraint.

Based on the above three games we understood that whatever the problem it may be first we do not avoid the problem. second we have to understand the problem. Third based on the constraint we plan accordingly to get the solution. At the end there will be a solution for every problem so we have to keep on practicing.

After the puzzle solving game I understood how much critical thinking, logical thinking, problem solving techniques, time management, mathematical skills are more important for solving the problems.

After the lunch Abraham sir came and interacted with us about the skills and problem solving methods then he arranged for interaction with surfboard employees to break the barrier for interns. Then we guys went there and interacted with each employees one by one.

First I went to abishek brother who is working in a network security domain. we started with introducing ourselves and I asked questions like how the network security is working for this project and coding skills are required for this domain and so on

Second I met sathish brother who is working in testing domain and I understood where testing is applied in the project and he told about how testing works and what is manual testing and what is automation testing.

Third I moved to gayathri sister who is working in testing domain and I asked how relevant are you in this field before joining surfboard she answered politely for my questions

Fourth I went to nandhini who is working as a technical writer. I am very much impressed with her answers and gained a lot about technical writing. from journal writing to technical writing within one

year of time period she learned a lot from the mentors. As a technical writer she has to know each topic relevant to the project so that she writes technical sentences

Fifth I met Praveen brother he is working in flutter domain. he is an extrovert and also very friendly knowledgeable person answered my every queries other than work related like I asked about the celebrations and how you got selected in internship training, in what basis they are hiring the interns and so on.

Sixth person I met was I forgot the name but he is also working in flutter so I asked him how you learned and gained knowledge in this domain and how the mentors are helpful for us to learn the skill etc.

Seventh person I met was Praveen brother who is working in infrastructure domain he told about that domain and how it is working like so on

Eighth I met sister (forgot her name) she joined 3 months ago so she told like I am in learning phase only so we talk for some time about our college native and all.

Finally I met ashwanth sir I am very much impressed with his teaching skill like practically he explained each and every step starting from the requirement of the project to the end users how they are handling. I have clearly understood the basic concept where the surfboard is working for like it is a fintech (financial technology) Sweden based company, where they working for cards related like gpay and all we are tapping the card and it goes to acquirer's bank and check for the constraints and payment will be done. most of the surfboard customers are business based persons. and there were three thousand customers are there and recently they launched their app in iphone too.

So from these interactive sessions I learned what is surfboard actually works for and how the app is developed using the frontend developer and how testing is done and how network security is important for the project and how its support team is working finally how the end user gets the successful project.

In this session I came to know about many things on work related and also non work related things

Thanks Abraham sir and koushik sir for this wonderful session and each employee is having more stuffs in that we interns are grateful to gain knowledge from them.