

DAY 7 SUMMARY

ALGORITHM:

An algorithm is a step-by-step process or detailed explanation of a problem in a step by step. It is a set of rules given for the computer to solve the problem. The instruction given for the computer to get the output.

Algorithm writing task:

We played a game for writing the algorithm. We were divided into teams consist of four members, each team has given a topic to write the algorithm about and we get the topic “go to your bag and get the book” it is like a task which has to be completed with the certain set of instructions.

At first, we have written some basic steps like get down from the chair, go to the place where you kept your bag and open your bag, take the book and get back to your place.

An algorithm is a set of detailed instructions, not just a simple statement. So, understanding this we again rewrite our algorithm in a detailed version like how a can understand.

After that using the algorithm written, we played a task like one of the team should read the algorithm and another team member should enact the process in the step by step as it writes in the algorithm.

Problem solving (write codes for the simple problems):

I have solved some problems in the loop topic, i have also written some loop condition based on the logics. But it does have some errors in that.

I have solved, reverse the number problem and first i tried to find the digit of the number and struggled with finding the digit and my logic of solving the doesn't work, because I made a mistake in that so it doesn't work and after struggling for some time and I have changed some conditions in that with the help of my mentor and it does work.

Then i tried to reverse the same number, but i don't know how to split the number and then i researched that and found the answer for that problem.

Then i tried solving the same logic problem like splitting the number and then finding out the square of that split number and then adding it together. I found the logic in the previous problem. So, this becomes a little bit easy for me to solve.

I have tried some more problem in the loop topic with using the function and here when trying this, i understand what is loop and how it works so i also solved this one.

Struggles faced:

- Today, the biggest struggle I faced was with the first problem I solved because I didn't understand the logic used in it.
- Then, with the last problem i solved today, the problem is based on array, using function i need to loop through the whole array and if i give any index value in that function, after that index value everything needs to be calculated. I don't know how to find the length of an array.

Key takeaways:

- I have learned how to properly write an algorithm and give instructions in the most detailed way possible.
- I have learned about the syntax of both for loop and while loop.
- I have learned the difference between where to use for loop and where to use while (the main purpose of them).
- I have learned about how to use function in a program.

Today's task:

Today, my task is to study the topic of arrays and i thought in every struggling part i need to learn more about this. Because i can't even solve a simple problem given for me. So, i need to develop my coding skill by learning and practicing.