<u>TCP Assignment 1</u>

Topic: Language Basics

<u>RESOURCES:</u>

<u>Variable Types:</u>

→ **C++ -** **https://www.scaler.com/topics/cpp/data-types-in-cpp/**

→ **Java - https://www.geeksforgeeks.org/data-types-in-java/**

<u>Time & Space Complexities:</u>

→**https://www.hackerearth.com/practice/basic-programming/complexity-analysis/time-and-space-complexity/tutorial/**

→ **https://codeforces.com/blog/entry/21344?f0a28=1**

<u>Operators, Loops & conditionals:</u>

→ **Operators: https://www.programiz.com/cpp-programming/operators**

→**Conditionals: https://www.programiz.com/cpp-programming/if-else**

→ **Loops: https://www.geeksforgeeks.org/cpp-loops/**

→ **Java** : Decision Making in Java (if, if-else, switch, break, continue, jump)

<u>Errors in Programming:</u>

→ **https://www.geeksforgeeks.org/runtime-errors/**

<u>STL (Standard Template Library):</u>

→ **https://www.geeksforgeeks.org/the-c-standard-template-library-stl/**

→ **https://cplusplus.com/reference/stl/**

→ **https://www.youtube.com/watch?v=RRVYpIET_RU**

<u>Pattern Mostly Asked Questions :</u>

→ **Resource : https://youtu.be/lsOOs5J8ycw**

→ https://www.faceprep.in/c/pattern-programs-in-c/

→**https://www.geeksforgeeks.org/pattern-printing-question-asked-cgi-coding-round/?ref=rp**

Questions:

1. Time complexity mcq
2. **Zoos | Practice Problems (hackerearth.com)**
3. **Reverse Digits**
4. **Armstrong Numbers**
5. **Write a program in C++ to find the sum of the series 1 +11 + 111 + 1111 + .. n terms.**
6. **Write a program in C++ to display the number in reverse order**
7. **Write a program in C++ to Check Whether a Number can be Express as Sum of Two Prime Numbers**
8. **Replace all 0's with 5**
9. **Prime Number**
10. **Closest Number**
11. **How Many X's?**
12. **Number of Common Factors - LeetCode**
13. **Sum of Number and Its Reverse - LeetCode**

Extras

Water and Jug Problem - LeetCode

Water Bottles - LeetCode

Nth Digit - LeetCode

Calculate Money in Leetcode Bank - LeetCode