Lab Sheet – 2

The purpose of this lab is to make you take **baby steps** in problem solving by attempting 4 simple problems in Codeforces. By the time you start this lab, your instructor would have already introduces these problems and discuss the solution ideas. You can first solve them in Colab, try out with different inputs, ensure the program works as per expectation and then submit in Codeforces.

- First **read the problem** as many times as necessary **and understand the essential question**. Some of the statements are just building story around the problem and are not relevant. Discard them and **note down** only the **useful information**.
- Secondly, **write down the objective** of the problem in simple terms. Think and write down the series of steps that will transform the input to output. This is the **most important and probably difficult part** of problem solving. Don't give up.
- **Start coding** the solution you came up with. **Refer** to Python basic syntax and pick the necessary ones to write the program. You might make silly **syntax errors**. Colab will indicate to you when you attempt to run it. **Fix them**.
- Sometimes your **logic** might be **incorrect or incomplete**. **Test it** with the sample inputs and some more inputs to check the logic. If they fail, **go back** to the code and **fix** the error. Test again.

1. Watermelon (4A)
    a. https://codeforces.com/problemset/problem/4/A
    b. This problem requires simple math.
    c. You need to check if a number is odd or even. How can you do that?
2. A+B problem (1351A)
    a. https://codeforces.com/problemset/problem/1351/A
    b. Straightforward problem.
    c. You need a loop to repeat finding sum.
3. Triangle (1064A)
    a. https://codeforces.com/problemset/problem/1064/A
    b. Another simple math-based problem. Checking a basic triangle property.
    c. You need to use logical operator to combine multiple conditions.
4. Domino piling (50A)
    a. https://codeforces.com/contest/50/problem/A.
    b. Yet another math-based problem.
    c. Work out the sample inputs and try to understand the solution.

Note: Please ensure the solutions are submitted and accepted in codeforces.

Submission: The proof of acceptance (screenshots) along with source code for all 4 problems must be submitted in Teams → Assignment-1.

Important note: You must try on your own and drill your way through. Don't mind if you struggle. Without struggle, there is no learning. Get used to the struggling and overcoming. That is very normal in problem solving. You can seek help after you have tried enough.