Home Assignment 1
(Pseudocode/Step/Flow Chart)
Introduction to Computer Systems
<u>(Section: B, N, O)</u>

Write all of the answers (pseudocode/step and flow chart) in the script (handwritten). Then use scanning software (Camscanner, etc.) to scan your scripts and make a PDF file. Upload that PDF file to eLMS.

Make sure to practice by merging questions also, such as you might get a question that has a similar pattern like the combination of question 4 and question 7.

Example: Calculate the multiplication of three numbers and check whether the output is an odd or an even number.

1. Print "Hello World." on-screen.
2. Calculate the average of two numbers.
3. Calculate the average of five numbers.
4. Calculate the multiplication of three numbers.
5. Calculate the division of two numbers.
6. Calculate the subtraction of two numbers.
7. Input a number and check if it is an odd or even number.
8. Input a number and check if it is divisible by 3.
9. Input a number and check if it is divisible by 5.
10. Input a number and check if it is divisible by 17.
11. Input a number and check if it is divisible by 2.
12. Input a year and check if it is a "Leap Year" or not.
13. Find the largest number among three numbers.
14. Find the largest number among two numbers.
15. Find the smallest number among three numbers.
16. Find the smallest number among two numbers.
17. Find the area of a rectangle.
18. Find the area of a triangle.

19. Find the area of a circle.
20. Find the area of a square.
21. The width and length of a rectangular garden are 20 meters and 15 meters, respectively. There is a road of width 2 meters around the outside boundary of the garden. What will be the area of the path around the boundary of the garden?
22. The width and length of a rectangular garden are 20 meters and 15 meters, respectively. There is a circular spot inside the garden having a radius of 3.5 meters. What will be the area of the path around the circular path (outside of the circular path but inside of the garden) of the garden?
23. Step-by-step process to make a cup of tea.
24. Step-by-Step process to reach your university from your home.
25. Divide the age bracket flowchart (in the slide).
26. Other problems are available in the slide, and we learned in the classes.