1. A car rental company charges 20 taka for every kilometer of travel. (It charges full 20 taka for any fractional km). It also charges 2 taka for every minute of waiting. Write a C program which can input a fractional number indicating distance travel and an integer number indicating waiting time in minutes. Display the total bill for that ride.

2. Nusaiba is child who just learn to crawl. However, she cannot crawl continuously a large distance. After every 3 feet of crawling, she needs to rest for a while. Write a C program which input distance of Nusaiba's crawling and display number of times she takes rest to crawl this distance.

3. You have bought a large number of cubic shape marbles and want to store them in a cube shape box. Write a C program which can input length marbles and also length of the box and display how many marbles can be stored in that box.


4. Suppose you purchased a lot of chocolates and want to distribute those with your cousins. You want to give them as many chocolates as possible but also want to give each one the same number of chocolates. Write a C program which can input the number of chocolates you bought and number of cousins you have and display how many chocolates will get by each of your cousin and whether any chocolates will remain after distribution.
5. Suppose an elevator can accommodate m number of people and there are n people in the queue. Write a C program to input integers indicating those m and n and display how many times the elevator operates to serve all of those people in queue.

6. In new COVID protocol in elevator queue every person should maintain a three feet distance from another person. If a corridor in front of the elevator is n feet long then how many people can gather for the queue. Write an appropriate C program for this.


Puzzle not Programming

Suppose you have a Rubik's cube which are Red, Green, and Blue in color. The cube falls into a white color paint. (Paint can only change the color of the surface of the cube. But cannot go through the cube) How many cubes will be intact in color and how many will be partially white.