# **QUESTION 1**

## **Problem Statement: Student Mark Sheet Preparation**

## **Objective:**

A master has come to the school, and he wants to prepare the mark sheets of some students. He has some data that he uses to create a specific format with which to produce this output.

#### Task:

Develop a function named **generateStudentMarkSheets** to process the provided student and subject data, and produce a formatted mark sheet for each student.

## Input:

```
const students = [
    { name: "Dhishan Debnath", Roll: 1 },
    { name: "Animesh Gupta", Roll: 2 },
    { name: "Tapas Sen", Roll: 3 },
    { name: "Misti Dutta", Roll: 4 },
    { name: "Chini Misra", Roll: 5 }
];

const Details = [
    { Roll: 5, subjects: { math: 35, english: 56, chemistry: 76, computer: 68 } },
    { Roll: 3, subjects: { math: 33, chemistry: 12, computer: 50, english: 35 } },
    { Roll: 1, subjects: { math: 55, english: 75, chemistry: 76, computer: 94 } },
    { Roll: 4, subjects: { english: 12, chemistry: 85, computer: 68, math: 45 } },
    { Roll: 2, subjects: { math: 55, english: 56, computer: 48, chemistry: 12 } }
];
```

## **Output:**

```
const studentsMarkSheets = [
{ name: "Dhishan Debnath", Roll: 1, math: 55, english: 75, chemistry: 76, computer: 94, total: 300, status: "pass" },
{ name: "Animesh Gupta", Roll: 2, math: 55, english: 56, computer: 48, chemistry: 12, total: 171, status: "fail" },
{ name: "Tapas Sen", Roll: 3, math: 33, chemistry: 12, computer: 50, english: 35, total: 130, status: "fail" },
{ name: "Misti Dutta", Roll: 4, english: 12, chemistry: 85, computer: 68, math: 45, total: 207, status: "pass" },
{ name: "Chini Misra", Roll: 5, math: 35, english: 56, chemistry: 76, computer: 68, total: 235, status: "pass" }
];
```

## **Requirements:**

Create the **generateStudentMarkSheets** function to process student and subject data. Calculate total marks for each student.

Determine pass/fail status based on a total marks threshold (e.g., total marks >= 200 for passing). Ensure the output follows the specified format.