

TASK -2

```
package tasks2;

import java.util.Scanner;

public class StudentGrade {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        // Number of subjects

        int numSubjects;

        // Input the number of subjects

        System.out.print("Enter the number of subjects: ");

        numSubjects = scanner.nextInt();

        // Array to store marks for each subject

        int[] marks = new int[numSubjects];

        // Input marks for each subject

        for (int i = 0; i < numSubjects; i++) {

            System.out.print("Enter marks for subject " + (i + 1) + " (out of 100): ");

            marks[i] = scanner.nextInt();

        }

        // Calculate total marks

        int totalMarks = 0;

        for (int mark : marks) {

            totalMarks += mark;

        }

        // Calculate average percentage

        double averagePercentage = (double) totalMarks / numSubjects;

        // Determine grade

        char grade;

        if (averagePercentage >= 90) {

            grade = 'A';

        } else if (averagePercentage >= 80) {
```

```

grade = 'B';

} else if (averagePercentage >= 70) {

grade = 'C';

} else if (averagePercentage >= 60) {

grade = 'D';

} else {

grade = 'F';

}

// Display results

System.out.println("\nResults:");

System.out.println("Total Marks: " + totalMarks);

System.out.println("Average Percentage: " + averagePercentage + "%");

System.out.println("Grade: " + grade);

// Close the scanner

scanner.close();

}

}

```

Screen shot:

The screenshot shows the Eclipse IDE with the following components:

- Package Explorer:** Shows a project named 'tasks' with a sub-package 'task2' containing files like 'StudentGrade.java', 'RandomNumberGenerator.java', and 'NumberGuessingGame.java'.
- Editor:** Displays the code for 'StudentGrade.java'. The code is as follows:


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        // Input the number of subjects
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        int[] marks = new int[numSubjects];

        // Input marks for each subject
        for (int i = 0; i < numSubjects; i++) {
            System.out.print("Enter marks for subject " + (i + 1) + " (out of 100): ");

```
- Console:** Shows the execution output:


```

Enter the number of subjects: 7
Enter marks for subject 1 (out of 100): 12
Enter marks for subject 2 (out of 100): 78
Enter marks for subject 3 (out of 100): 27
Enter marks for subject 4 (out of 100): 62
Enter marks for subject 5 (out of 100): 48
Enter marks for subject 6 (out of 100): 15
Enter marks for subject 7 (out of 100): 35

Results:
Total Marks: 277
Average Percentage: 39.57142857142857%
Grade: F

```