

TASK 2

INTERNSHIP ON JAVA PROGRAMMING

Q) STUDENT GRADE CALCULATOR

Input: Take marks obtained (out of 100) in each subject.

Calculate Total Marks: Sum up the marks obtained in all subjects.

Calculate Average Percentage: Divide the total marks by the total number of subjects to get the

average percentage.

Grade Calculation: Assign grades based on the average percentage achieved.

Display Results: Show the total marks, average percentage, and the corresponding grade to the user

PROGRAM:

```
import java.util.Scanner;
```

```
public class GradeCalculator {
```

```
    public static void main(String[] args) {
```

```
        Scanner scanner = new Scanner(System.in);
```

```
        // Input
```

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

```
        int numSubjects = scanner.nextInt();
```

```
        int totalMarks = 0;
```

```
        for (int i = 1; i <= numSubjects; i++) {
```

```
            System.out.print("Enter marks obtained in subject " + i + ": ");
```

```
            int marks = scanner.nextInt();
```

```
            totalMarks += marks;
```

```
        }
```

```

// Calculate total marks

double averagePercentage = (double) totalMarks / numSubjects;

// Grade Calculation

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("Total Marks: " + totalMarks);
System.out.println("Average Percentage: " + averagePercentage + "%");
System.out.println("Grade: " + grade);

scanner.close();
}
}

```

Output:

Enter the number of subjects: 5

Enter marks obtained in subject 1: 97

Enter marks obtained in subject 2: 88

Enter marks obtained in subject 3: 82

Enter marks obtained in subject 4: 85

Enter marks obtained in subject 5: 78

Total Marks: 430

Average Percentage: 86.0%

Grade: B

=== Code Execution Successful ===

The above program prompts the user to enter the number of subjects and their marks for each subject. It then calculates the total marks, average percentage, and assigns a grade based on the average percentage. Finally, it displays the results to the user.