

```
1 import java.util.Scanner;
2 public class gradecalc {
3     public static void main(String[] args) {
4         Scanner sc = new Scanner(System.in);
5
6         // enter the total number of subjects to
        calculate their marks
7         System.out.println("Enter the total number of
        subjects :");
8         int numSub = sc.nextInt();
9
10
11         int totalMarks = 0;
12
13         for (int i = 1; i <= numSub; i++) {
14             System.out.println("Enter the marks for
        subjects " + i + "(out of 100): ");
15             int marks = sc.nextInt();
16             //input validation
17             while (marks < 0 || marks > 100) {
18                 System.out.println("Invalid marks .
        please enter marks between 0 and 100.");
19                 System.out.println("Enter marks for
        subject " + i + " out of 100");
20                 marks = sc.nextInt();
21             }
22             totalMarks += marks;
23         }
24         System.out.println("Student result:");
25         System.out.println("Total marks obtained in
        all subjects: " + totalMarks);
26
27
28         int averagePercentage = totalMarks / numSub;
29         System.out.println("The average percentage of
        is : " + averagePercentage);
30
31
32         if (averagePercentage >= 90) {
33             System.out.println("Your grade is A+");
34
```

```
35         } else if (averagePercentage >= 80) {
36             System.out.println("Your grade is B+");
37
38         } else if (averagePercentage >= 70) {
39             System.out.println("Your grade is B");
40
41         } else if (averagePercentage >= 60) {
42             System.out.println("Your grade is B");
43         }
44         else{
45             System.out.println("Your grade is E");
46         }
47
48
49     }
50 }
51
52
53
54
55
56
57
58
59
```