PROGRAM:

To make entry of 5 subjects, restrict to enter more than 100 marks for a subject, use of for, if, Scanner etc.

```java
import java.util.Scanner;

public class CheckForFailUsingIf {

    public static void main(String args[])
    {
            int noOfStudents, i,j,marks, sum=0, percent;
            System.out.println("Please Enter number of students");
            Scanner s1 = new Scanner(System.in);
            noOfStudents = s1.nextInt();
            System.out.println("Entered students are = "+noOfStudents);

            for(i=1; i<=noOfStudents; i++)
            {
                    System.out.println("Enter" +i+ "students marks");
                    System.out.println("_____");
                    for(j=1; j<=5; j++)
                    {
                            System.out.println("Enter" +j+ "subject marks");
                            marks = s1.nextInt();
                            sum =sum + marks;

                            if(marks < 33)
                            {
                                    if(j ==1)
                                    {
                                            System.out.println("You are fail in Hindi");
```

```java
                }
                if(j ==2)
                {
                        System.out.println("You are fail in Hindi");
                }
                if(j ==3)
                {
                        System.out.println("You are fail in Hindi");
                }
                if(j ==4)
                {
                        System.out.println("You are fail in Hindi");
                }
                if(j ==5)
                {
                        System.out.println("You are fail in Hindi");
                }
        }



}

System.out.println("Sum of marks =" + sum);
percent = sum/5;
System.out.println("Your percentage = " +percent);

if(percent > 90)
{
        System.out.println("Your grade is = A+");
}

if(percent <= 90 && percent >80)
{
        System.out.println("Your grade is = A");
```

```java
        }

        if(percent <= 80 && percent >70)
        {
                System.out.println("Your grade is = B+");
        }

        if(percent <= 70 && percent >60)
        {
                System.out.println("Your grade is = B");
        }

        if(percent <= 60 && percent >50)
        {
                System.out.println("Your grade is = C+");
        }

        if(percent <= 50 && percent >40)
        {
                System.out.println("Your grade is = C");
        }

        if(percent <= 40)
        {
                System.out.println("Your grade is = D");
        }

        sum = 0;
        System.out.println("_____");
    }


  }
}
```

OUTPUT:

Please Enter number of students
2
Entered students are = 2
Enter1students marks

_____
Enter1subject marks
50
Enter2subject marks
40
Enter3subject marks
60
Enter4subject marks
80
Enter5subject marks
70
Sum of marks =300
Your percentage = 60
Your grade is = C+

_____
Enter2students marks

_____
Enter1subject marks
20
You are fail in Hindi
Enter2subject marks
40
Enter3subject marks
50
Enter4subject marks

60
Enter5subject marks
40
Sum of marks =210
Your percentage = 42
Your grade is = C

_____


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28. Define a class to declare an array of size 20 of the double datatype, accept the elements into the array and perform the following: Calculate and print the sum of all the elements.

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31. Write a Java program String to uppercase and count words startig with 'A'