```
import java.util.Scanner;
abstract class students {
   int[] testScores = new int[4];
   String testResult;
   String studentName;
   Scanner s = new Scanner(System.in);
   abstract void generateResults();
   students(String name) {
       studentName = name;
   }
   void setTestScores() {
       for (int i = 0; i < 4; i++) {
           System.out.println("Enter test scores " + (i +
1));
           testScores[i] = s.nextInt();
       }
   }
   public String getStudentName() {
       return studentName;
   }
   public int getTestScores() {
       int sum = 0;
       for (int i : testScores) {
           sum += i;
       return sum;
```

```
class undergraduateStudent extends students {
   undergraduateStudent(String name) {
       super(name);
  }
  void generateResults() {
       String st;
      if (getTestScores() / 4 >= 60) {
           st = "pass";
      } else {
           st = "fail";
       }
       testResult = "student name: " + studentName + "\n
test result: " + st;
       System.out.println(testResult);
  }
class graduateStudent extends students {
   graduateStudent(String name) {
       super(name);
  }
  void generateResults() {
       String st;
       if (getTestScores() / 4 >= 70) {
           st = "pass";
       } else {
```

```
st = "fail";
       testResult = "student name: " + studentName + "\n
test result: " + st;
       System.out.println(testResult);
   }
public class anchor {
   public static void main(String[] args) {
       System.out.println("enter 1 for
undergraduateStudent or 2 for graduateStudent");
       Scanner st = new Scanner(System.in);
       int i = st.nextInt();
       st.nextLine();
       System.out.println("enter ur name");
       if (i == 1) {
       undergraduateStudent u = new
undergraduateStudent(st.nextLine());
               u.setTestScores();
               u.generateResults();
       else if (i == 2) {
               graduateStudent g = new
graduateStudent(st.nextLine());
               g.setTestScores();
               g.generateResults();
       }else{
           System.out.println("Invalid input");
       st.close();
```

}

## Output



