Input	Expected Output	Actual Output	Pass?

numStudents = 2
student1 = Henry
grade1 = 42
student2 = Sarah Jane
grade2 = 96
	How many students do you want to enter: 2
	Student 1:
	    Enter student's name: Henry
	    Enter student's score (0-100): 42
	Student 2:
	    Enter student's name: Sarah Jane
	    Enter student's score (0-100): 96
	
	Henry 42.00
	Sarah Jane 96.00
	
	Sarah Jane has the highest score => 96.00 and Henry has the lowest score => 42.00
		How many students do you want to enter: 2
		Student 1:
		    Enter student's name: Henry
		    Enter student's score (0-100): 42
		Student 2:
		    Enter student's name: Sarah Jane
		    Enter student's score (0-100): 96
		
		Henry 42.00
		Sarah Jane 96.00
		
		Sarah Jane has the highest score => 96.00 and Henry has the lowest score => 42.00
			Yes

numStudents = 4
student1 = Oliver Queen
grade1 = 75
student2 = Barry Allen
grade2 = 96.2
student3 = Jefferson Pierce
grade3 = 84
student4 = Kara Danvers
grade4 = 81.56
	How many students do you want to enter: 4
	Student 1:
	    Enter student's name: Oliver Queen
	    Enter student's score (0-100): 75
	Student 2:
	    Enter student's name: Barry Allen
	    Enter student's score (0-100): 96.2
	Student 3:
	    Enter student's name: Jefferson Pierce
	    Enter student's score (0-100): 84
	Student 4:
	    Enter student's name: Kara Danvers
	    Enter student's score (0-100): 81.56
	
	Oliver Queen 75.00
		How many students do you want to enter: 4
		Student 1:
		    Enter student's name: Oliver Queen
		    Enter student's score (0-100): 75
		Student 2:
		    Enter student's name: Barry Allen
		    Enter student's score (0-100): 96.2
		Student 3:
		    Enter student's name: Jefferson Pierce
		    Enter student's score (0-100): 84
		Student 4:
		    Enter student's name: Kara Danvers
		    Enter student's score (0-100): 81.56
		
		Oliver Queen 75.00
			Yes

	Barry Allen 96.20 Jefferson Pierce 84.00 Kara Danvers 81.56 Barry Allen has the highest score => 96.20 and Oliver Queen has the lowest score => 75.00	Barry Allen 96.20 Jefferson Pierce 84.00 Kara Danvers 81.56 Barry Allen has the highest score => 96.20 and Oliver Queen has the lowest score => 75.00	

numStudents = 3
student1 = Tony Stark
grade1 = 100
student2 = Steve Rogers
grade2 = 83
student3 = Bruce Banner
grade3 = 99
	How many students do you want to enter: 3
	Student 1:
	   Enter student's name: Tony Stark
	   Enter student's score (0-100): 100
	Student 2:
	   Enter student's name: Steve Rogers
	   Enter student's score (0-100): 83
	Student 3:
	   Enter student's name: Bruce Banner
	   Enter student's score (0-100): 99
	
	Tony Stark 100.00
	Steve Rogers 83.00
	Bruce Banner 99.00
	
	Tony Stark has the highest score => 100.00 and Steve Rogers has the lowest score => 83.00
		How many students do you want to enter: 3
		Student 1:
		   Enter student's name: Tony Stark
		   Enter student's score (0-100): 100
		Student 2:
		   Enter student's name: Steve Rogers
		   Enter student's score (0-100): 83
		Student 3:
		   Enter student's name: Bruce Banner
		   Enter student's score (0-100): 99
		
		Tony Stark 100.00
		Steve Rogers 83.00
		Bruce Banner 99.00
		
		Tony Stark has the highest score => 100.00 and Steve Rogers has the lowest score => 83.00
			Yes

Test Case 1

replit.com/@blackbluue/college-courses#cmis141/Week6/MillerRaymone_Asgn6.java

Apps   EA   RoboForm   GitHub   Repl.it   ALMS   AKO   Python Standard Li...   Other bookmarks

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Files

> cmis102
∨ cmis141
  > Week1
  > Week2
  > Week3
  > Week4
  > Week5
  ∨ Week6
    box.txt
    HernandezJuan_DiscW...
    MillerRaymone_Asgn6....
    MillerRaymone_Week6...
    MillerRaymone_Week6...
    MillerRaymone_Week6...
  > Week7
  .gitattributes
  .gitignore
  .replit
  main.java

cmis141/Week6/MillerRaymone_Asgn6.java

```java
1  /**
2   * File: MillerRaymone_Asgn6.java
3   * Author: Miller, Raymone
4   * Class:  CMIS 141 - Assignment 6
5   * Creation Date: (31MAR21)
6   * Description: Collects uer input to store arrays of student names and
7                  grades. Then displays all names/grades and uses wwritten
8                  methods to determine the lowest and highest grades.
9   */
10
11 package com.miller.millerraymone_asgn6;
12
13 import java.util.InputMismatchException;
14 import java.util.Scanner;
15 import java.util.function.Predicate;
16
17 public class MillerRaymone_Asgn6 {
18     public static void main(String[] args) {
19         // open scanner
20         Scanner sc = new Scanner(System.in);
21         String[] students;  // list of student names
22         double[] grades;  // list of student grades
23         // get user input for number of students
24         int numStudents = (int) getUserNumber(sc,
25             "How many students do you want to enter: ", input -> input <= 0);
26
27         // initialize arrays
28         students = new String[numStudents];
29         grades = new double[numStudents];
30         // loop to get input for student names and grades
31         for(int i = 0; i < numStudents; i++) {
32             System.out.printf("Student %d:\n", i + 1);
33             System.out.print("\tEnter student's name: ");
34             students[i] = sc.nextLine();
35             grades[i] = getUserNumber(sc, "\tEnter student's score (0-100): ",
36                 input -> input < 0 || input > 100);
37         }
38
39         // loop to print contents of students and grades arrays
40         for(int i = 0; i < numStudents; i++)
41             System.out.printf("\n%s\t%.2f", students[i], grades[i]);
42
43         // get index of lowest/highest grades
```

Console   Shell

```
> java cmis141/Week6/MillerRaymone_Asgn6.java
How many students do you want to enter: 2
Student 1:
    Enter student's name: Henry
    Enter student's score (0-100): 42
Student 2:
    Enter student's name: Sarah Jane
    Enter student's score (0-100): 96

Henry    42.00
Sarah Jane    96.00

Sarah Jane has the highest score => 96.00 and Henry has the lowest score => 42.00
>
```

Test Case 2

replit.com/@blackbluue/college-courses#cmis141/Week6/MillerRaymone_Asgn6.java

Apps   EA   RoboForm   GitHub   Repl.it   ALMS   AKO   Python Standard Li...   Other bookmarks

blackbluue / college-courses   Run ▶   Upgrade   Share

Files

> cmis102
∨ cmis141
  > Week1
  > Week2
  > Week3
  > Week4
  > Week5
  ∨ Week6
    box.txt
    HernandezJuan_DiscW...
    MillerRaymone_Asgn6...
    MillerRaymone_Week6...
    MillerRaymone_Week6...
    MillerRaymone_Week6...
  > Week7
  .gitattributes
  .gitignore
  .replit
  main.java

cmis141/Week6/MillerRaymone_Asgn6.java

```java
1  /**
2   * File: MillerRaymone_Asgn6.java
3   * Author: Miller, Raymone
4   * Class:  CMIS 141 - Assignment 6
5   * Creation Date: (31MAR21)
6   * Description: Collects uer input to store arrays of student names and
7                  grades. Then displays all names/grades and uses wwritten
8                  methods to determine the lowest and highest grades.
9   */
10
11 package com.miller.millerraymone_asgn6;
12
13 import java.util.InputMismatchException;
14 import java.util.Scanner;
15 import java.util.function.Predicate;
16
17 public class MillerRaymone_Asgn6 {
18     public static void main(String[] args) {
19         // open scanner
20         Scanner sc = new Scanner(System.in);
21         String[] students;  // list of student names
22         double[] grades;  // list of student grades
23         // get user input for number of students
24         int numStudents = (int) getUserNumber(sc,
25             "How many students do you want to enter: ", input -> input <= 0);
26
27         // initialize arrays
28         students = new String[numStudents];
29         grades = new double[numStudents];
30         // loop to get input for student names and grades
31         for(int i = 0; i < numStudents; i++) {
32             System.out.printf("Student %d:\n", i + 1);
33             System.out.print("\tEnter student's name: ");
34             students[i] = sc.nextLine();
35             grades[i] = getUserNumber(sc, "\tEnter student's score (0-100): ",
36                 input -> input < 0 || input > 100);
37         }
38
39         // loop to print contents of students and grades arrays
40         for(int i = 0; i < numStudents; i++)
41             System.out.printf("\n%s\t%.2f", students[i], grades[i]);
42
43         // get index of lowest/highest grades
```

Console   Shell

```
> java cmis141/Week6/MillerRaymone_Asgn6.java
How many students do you want to enter: 4
Student 1:
    Enter student's name: Oliver Queen
    Enter student's score (0-100): 75
Student 2:
    Enter student's name: Barry Allen
    Enter student's score (0-100): 96.2
Student 3:
    Enter student's name: Jefferson Pierce
    Enter student's score (0-100): 84
Student 4:
    Enter student's name: Kara Danvers
    Enter student's score (0-100): 81.56

Oliver Queen    75.00
Barry Allen    96.20
Jefferson Pierce    84.00
Kara Danvers    81.56

Barry Allen has the highest score => 96.20 and Oliver Queen has the lowest score => 75.00
>
```

Test Case 3

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Files

cmis141/Week6/MillerRaymone_Asgn6.java

```java
/**
 * File: MillerRaymone_Asgn6.java
 * Author: Miller, Raymone
 * Class:  CMIS 141 - Assignment 6
 * Creation Date: (31MAR21)
 * Description: Collects uer input to store arrays of student names and
 *              grades. Then displays all names/grades and uses wwritten
 *              methods to determine the lowest and highest grades.
 */

package com.miller.millerraymone_asgn6;

import java.util.InputMismatchException;
import java.util.Scanner;
import java.util.function.Predicate;

public class MillerRaymone_Asgn6 {
    public static void main(String[] args) {
        // open scanner
        Scanner sc = new Scanner(System.in);
        String[] students;  // list of student names
        double[] grades;  // list of student grades
        // get user input for number of students
        int numStudents = (int) getUserNumber(sc,
            "How many students do you want to enter: ", input -> input <= 0);

        // initialize arrays
        students = new String[numStudents];
        grades = new double[numStudents];
        // loop to get input for student names and grades
        for(int i = 0; i < numStudents; i++) {
            System.out.printf("Student %d:\n", i + 1);
            System.out.print("\tEnter student's name: ");
            students[i] = sc.nextLine();
            grades[i] = getUserNumber(sc, "\tEnter student's score (0-100): ",
                input -> input < 0 || input > 100);
        }

        // loop to print contents of students and grades arrays
        for(int i = 0; i < numStudents; i++)
            System.out.printf("\n%s\t%.2f", students[i], grades[i]);

        // get index of lowest/highest grades
```

Console | Shell

```
> java cmis141/Week6/MillerRaymone_Asgn6.java
How many students do you want to enter: 3
Student 1:
    Enter student's name: Tony Stark
    Enter student's score (0-100): 100
Student 2:
    Enter student's name: Steve Rogers
    Enter student's score (0-100): 83
Student 3:
    Enter student's name: Bruce Banner
    Enter student's score (0-100): 99

Tony Stark  100.00
Steve Rogers     83.00
Bruce Banner     99.00

Tony Stark has the highest score => 100.00 and Steve Rogers has the lowest score => 83.00
>
```

Files tree
- cmis102
- cmis141
  - Week1
  - Week2
  - Week3
  - Week4
  - Week5
  - Week6
    - box.txt
    - HernandezJuan_DiscW...
    - MillerRaymone_Asgn6....
    - MillerRaymone_Week6...
    - MillerRaymone_Week6...
    - MillerRaymone_Week6...
  - Week7
  - .gitattributes
  - .gitignore
  - .replit
  - main.java