Lab Goal: This lab was designed to teach you more about arrays of references.

Lab Description: You will create a Class that will store information about grades for an entire class of students. The Class will store a class name and an array of Students. Each Student will have a name and a list of grades. You must use the Student class methods to write the Class.

Class Class:

```
public class Class
 private String name;
 private Student[] studentList;
  //constructors
  public void addStudent(int stuNum, Student s) { }
 public String getClassName() { return ""; }
  public double getClassAverage() {
   return 0.0;
  public double getStudentAverage(int stuNum) {
   return 0.0;
 public double getStudentAverage(String stuName) {
   return 0.0;
  public String getStudentName(int stuNum) {
   return "";
 public String getStudentWithHighestAverage() {
   return "";
 public String getStudentWithLowestAverage() {
   return "";
 public String getFailureList(double failingGrade) {
    return "";
```

Sample Input(ClassRunner.java):

See the main of ClassRunner.java.

Sample Output:

```
Comp Sci 1
Jimmy = 100.0 A 90.0 A 80.0 B 60.0 D 82.50
Sandy = 100.0 A 100.0 A 80.0 B 70.0 C 87.50
Fred = 50.0 F 50.0 F 70.0 C 68.0 D 23.0 F 52.20
Sam = 100.0 A 100.00

Jimmy's average = 82.50
Sandy's average = 87.50
Fred's average 52.20
Sam's average 100.00
Sandy's average 87.50
Failure List = Fred
Highest Average = Sam
Lowest Average = Fred
```

Files Needed ::

Grades.java
GradesRunner.java
Student.java
StudentRunner.java
Class.java
ClassRunner.java