

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

**Lab Description :** You will create a Grades class to store grades. Then, you will create a Student class to store student name and grade information. Also, you will create a Class class to store class information. A Class will contain an array of Student and a class name.

### Class Grades :

```
public class Grades
{
    private double[] grades;

    //constructors

    public void setGrades(String gradeList){

    }

    public void setGrade(int spot, double grade){

    }

    public double getSum(){
        return sum;
    }

    public double getLowGrade(){
        return 0;
    }

    public double getHighGrade(){
        return 0;
    }

    public int getNumGrades(){
        return grades.length;
    }

    //toString method
}
```

### Files Needed ::

**Grades.java**

**GradesTester.java**

### Sample Input(GradesTester.java) :

```
Grades test = new Grades("5 - 90 85 95.5 77.5 88");
out.println(test);
out.println("sum = " + test.getSum());
out.println("num grades = " + test.getNumGrades());
out.println("low grade = " + test.getLowGrade());
out.println("high grade = " + test.getHighGrade());
```

### Sample Output :

```
90.0 85.0 95.5 77.5 88.0
sum = 436.0
num grades = 5
low grade = 77.5
high grade = 95.5
```