

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

Lab Description : You will create a Student class to store student name and grade information. The Grades class will store an array of Grade objects. The Grades class will keep track of a student's grades. The Grades class will have methods to return the low grade, high grade, sum of all grades, and other related methods. You must use the Grade methods when writing the methods for the Grades class.

Class Grades :

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

    public Grades( double[] list )
    {
    }

    public void setGrade(int pos, double grade)
    {
    }

    public double getSum()
    {
        return 0;
    }

    public double getLowGrade()
    {
        return 0;
    }

    public double getHighGrade()
    {
        return 0;
    }

    public int getNumGrades()
    {
        return 0;
    }

    public String toString()
    {
        return "";
    }
}
```

Files Needed ::

Grades.java

GradesRunner.java

Sample Input(GradesRunner.java) :

```
90 85 95.5 77.5 88
10 70 90 92.5 85 95.5 77.5 88 100.0
```

Sample Output :

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

```
10.0 F 70.0 C 90.0 A 92.5 A 85.0 B 95.5 A 77.5 C 88.0 B 100.0 A
sum = 708.5
num grades = 9
low grade = 10.0
```

high grade = 100.0