

**Lab Goal :** This lab was designed to teach you how to use an array.

**Lab Description :** Instantiate an array, load it with values, total up all of the values in the array. Finally, find the average of all of the values.

### Sample Data :

```
5
100 90 85 72.5 95.6
3
50.0 100.0 80.0
3
93.4 -90.0 90.0
9
1 2 3 4 5 6 7 8 9
```

### Files Needed ::

```
Grades.java
GradesRunner.java
```

### Sample Output :

```
grade 0 :: 100.00
grade 1 :: 90.00
grade 2 :: 85.00
grade 3 :: 72.50
grade 4 :: 95.60
```

average = 88.62

```
grade 0 :: 50.00
grade 1 :: 100.00
grade 2 :: 80.00
```

average = 76.67

```
grade 0 :: 93.40
grade 1 :: -90.00
grade 2 :: 90.00
```

average = 31.13

```
grade 0 :: 1.00
grade 1 :: 2.00
grade 2 :: 3.00
grade 3 :: 4.00
grade 4 :: 5.00
grade 5 :: 6.00
grade 6 :: 7.00
grade 7 :: 8.00
grade 8 :: 9.00
```

average = 5.00

### basic array code

```
int[] array = {3,4,5,65,6,7,8,81};
for(int i=0; i<array.length; i++)
{
    out.println(array[i]);
}
```

### +10 Bonus

**Output the numbers in sorted order!**

### +10 Bonus

**Use a Scanner to read in the array values from the keyboard.**