

# ARRAYS – WORK SHEET

During the class, sometimes your teacher will ask you answer some questions below by yourself or with another student sitting next to you.

**Slide 16:** Declare two arrays to keep high and low temperature estimations for the next 7 days (starting from today).

High: 68,57,53,60,60,61,64

Low: 45,40,46,54,51,51,49

**Slide 17:** Display the high and low temperatures for the weekend. Assume that the first element in the array keep today's temperature. (Today is Thursday ☺)

```
System.out.print("Saturday (High/Low) :");  
System.out.println( _____ + "/" + _____ );  
System.out.print("Sunday (High/Low) :");  
System.out.println( _____ + "/" + _____ );
```

**Slide 18:** What will be the output?

```
int[] forecastHigh={68,57,53,60,60,61,64};  
System.out.println(forecastHigh[5]);  
forecastHigh[0] = forecastHigh[0] + 2;  
System.out.println(forecastHigh[0]);  
System.out.println(forecastHigh[7]);
```

**Output:**

**Slide 19 and 20:** Trace the code below and write the output.

```
String wordArr[] = {"you","can","cage","a","swallow","can't","you"};  
int i;
```

```
for (i=0; i<7; i++) {  
    System.out.print(" " + wordArr[i]);  
}  
System.out.println("?");
```

```
for (i=6; i > 1; i--){  
    System.out.print(" " + wordArr[i]);  
}  
System.out.println("!");
```

**OUTPUT:**

## YOUR PROGRAMMING PROBLEM

Day	Shop-A	Shop-B
Monday	50	75
Tuesday	40	60
Wednesday	60	55
Thursday	35	70
Friday	45	85
Saturday	90	70
Sunday	80	40

There are two coffee shops. The total numbers of cups sold each day are recorded for each shop for a week (starting from Monday) as seen below.

**Define and initialize necessary arrays, variables and constants**  
And then write a function to display elements of a given array

**What are the highest numbers for each shop?** Write a function to find the maximum value in a given array. Write sample statements to use that function.

**How much coffee is sold (in total) for each day?** Create a third array to keep the total number.

**Show the amount of coffee sold for the last three days of the week. (in reverse order)**  
Write the necessary code segment

**Extra: Which days Shop-A sells more than Shop-B?** How can you find it write and discuss your solution.