

## Continuation Practical 6 – Methods and Arrays

### Objectives

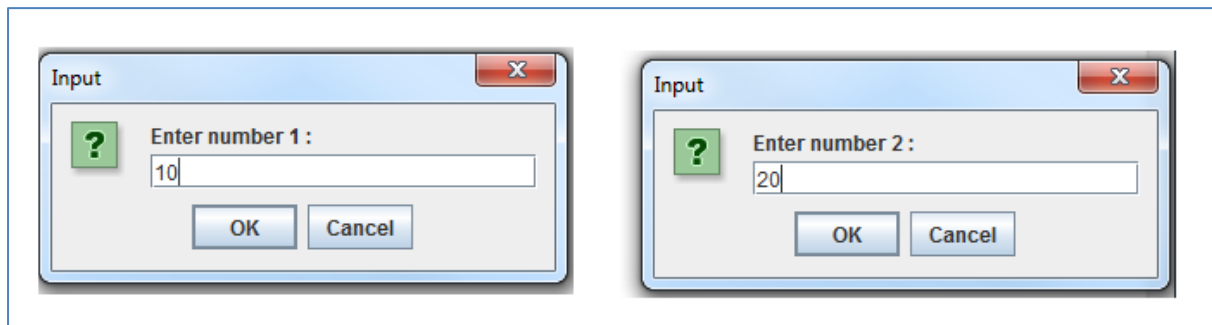
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On completion of this lab you should understand how to process arrays using methods

#### Question 1 Part 1 (NO GLOBAL VARIABLES OR GLOBAL ARRAYS (create the variables in the methods instead))

Write a program that creates an array to hold 10 numbers. Write a method that will allow the user to enter 10 numbers and store them in the array. The method should be called `enterNumbers`. Use `JOptionPane` methods to take in the values. See sample output below.

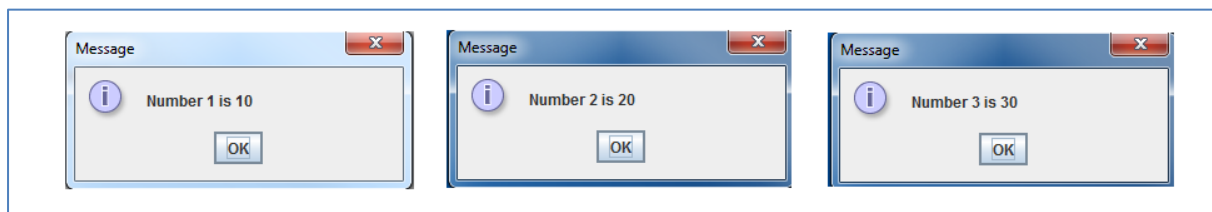
#### Sample Output for Part 1



#### Question 1 Part 2

Add to question 1, write a method called `displaysAll` that prints all the numbers to the screen. Use `JOptionPane` methods to print out the values. See sample output below.

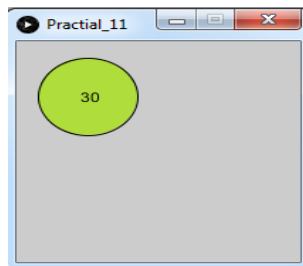
#### Sample Output for Part 2



### Question 1 Part 3

Now add a method called `findLargest`, it's job is to find the largest number in the array and **send this number back** to where it was called from (it was called from `draw()` ). It must then print this number in black in a green circle on the screen.

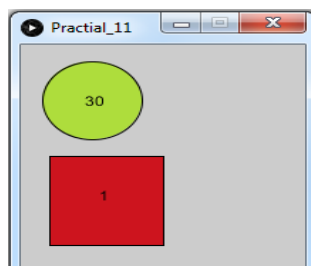
### Sample Output for Part 3



### Question 1 Part 4

Now add a method called `findSmallest` that will find the smallest number in the array. It should then print this number in a black in a red square.

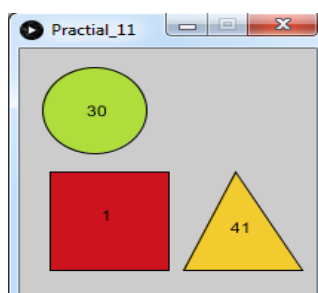
### Sample Output for Part 4



### Question 1 Part 5

Now add a method called `findTotal` that will find the total of all the numbers entered in the array. It should return this number and print this number in a black in a yellow triangle.

### Sample Output for Part 5

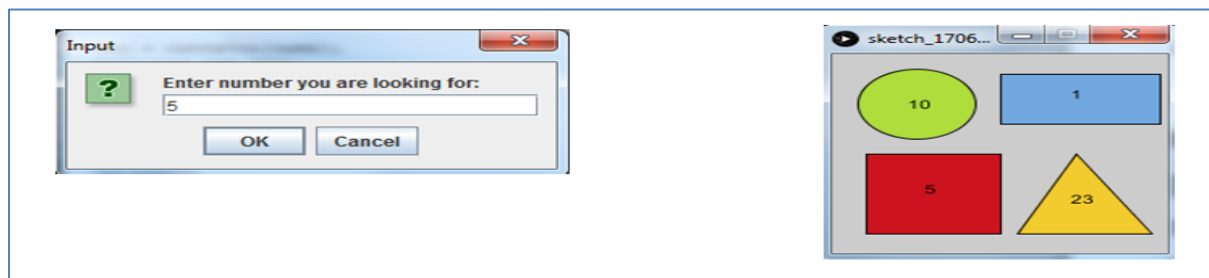


### Question 1 Part 6

Now add a method called `findNumber` that will find where in the array a certain number is stored. You must ask the user to enter the number they are looking for and send this number into the method. The method should then find the number and return it to where it was called from. You must then display the number of the location in a **blue** rectangle

### Sample Output for Part 6

If number you were looking for was found.



If number you were looking for was NOT found.

