**Week 6 Mon-Tue-Thurs Lab Assignments**

* **Self-Test: Mark the following statements as True or False:**
* A double type is an example of a primitive data type. **True**
* A one-dimensional array is an example of a structured data type. **True**
* Arrays can be passed as parameters to a method. **True**
* A method can return a value of the type array. **True**
* The size of an array is determined at compile time. **True**
* Given the declaration:

int[] list = new int[10];

The statement:

list[5] = list[3] + list[2];

updates the content of the fifth element of the array list. **False**

* If an array index goes out of bound, the program terminates in an error. **True**
* **Consider the method headings:**

void funcOne(int[] alpha, int size)

int funcSum(int x, int y)

void funcTwo(int[] alpha, int[] beta)

and the declarations:

int[] list = new int[50];

int[] AList = new int[60];

int num;

Write Java Statements that do the following:

* Call the method funcOne with the actual parameters, list and 50, respectively. **funcOne(list, 50);**
* Print the value returned by the method funcSum with the actual parameters, 50 and the fourth element of list, respectively.

**System.out.println(funcSum(50, list[4]));**

* Print the value returned by the method funcSum with the actual paramenters, the thirtieth and tenth elements of list, respectively.

**System.out.println(funcSum(list[12], list[9]));**

* Call the method funcTwo with the actual parameters, list and AList, respectively. **funcTwo(list, Alist);**

* **What is the output of the following program?**

public class Exercise5

{

public static void main(String[] args)

{

int j;

int[] one = new int[5];

int[] two = new int[10];

for(j = 0; j < 5; j++)

System.out.print(one[j] + “ “);

System.out.println();

for(j = 0; j < 5; j++)

{

two[j] = 2 \* one[j] – 1;

two[j + 5] = one[4 – j] + two[j];

}

System.out.print(“Two contains: “);

for(j =0; j < 10; j++)

System.out.print(two[j] + “ “);

System.out.println();

}

}

**0 0 0 0 0**

**Two contains: -1 -1 -1 -1 -1 -1 -1 -1 -1 -1**