

Sheet 7

Arrays

- 1. Determine whether the following array declarations are valid.
 - a. int a[4] = {0, 4, 3, 2, 7};
 b. int b[10] = {0, 7, 3, 12};
 c. int c[7] = {12, 13, , 14, 16, , 8};
 d. double lengths[] = {12.7, 13.9, 18.75, 20.78};
 e. int d[][] = {12, 13, 14, 16, 8, 3};
 f. char name[8] = "Samantha";
- 2. what is the output of the flowing peace of code:

- 3. Write a C++ program to add two array each of size=5.
- 4. Write a C++ program that perform the following:
 - a. ask user to Enter 5 integers and store them in an array.
 - b. copy all the elements in another array but in reverse order.
- 5. Write a C++ function that takes an array and return the average of the array's elements. Also, write a program to test your function.
- 6. Write a C++ function max(), that takes an array and return the largest number in the array. Also, write a program to test your function.
- 7. Write a C++ function that takes an unsorted array of integers and sort it in ascending order. Also, write a program to test your function.
- 8. Write a C++ program that perform the following:
 - a. ask the user to type 10 float numbers and store them in an array.
 - b. Pass the array to a function that returns to the users how many numbers are greater than or equal to 5.5 in the array.
- 9. Write a C++ function, getSmallestIndex(), that takes an array and return the index of the first occurrence of the smallest element in the array. Also, write approgram to test your function.
- 10. Write a C++ program that perform that ask the user to enter his name then an character x. and display "exist" if x exist in his name else print "doesn' t exist".

Note : you can use C string built in function "strlen()".