Programming with C Language

Tutorial 2

- 1. How do you write comments in a c program? What is the purpose of comments in a program?
- 2. Which is the function that is essential in a C program?
- 3. What is the purpose of 'scanf'?
- 4. Is 'standard c' a case sensitive language?
- 5. Determine which of the following are valid identifiers. If invalid, explain why.
- (a) record1
- (e) \$tax
- (h) name-and-address

- (b) 1record
- (f) name
- (i) name_and_address

- (c) file-3
- (g) name and address (j) 123 45 6789

- (d) return
- 6. State whether each of the following is true or false. If false, explain why.
 - a) Function printf always begins printing at the beginning of a new line.
 - b) Comments cause the computer to print the text enclosed between /* and */ on the screen when the program is executed.
 - c) The escape sequence \n when used in a printf format control string causes the cursor to position to the beginning of the next line on the screen.
 - d) All variables must be defined before they're used.
 - e) All variables must be given a type when they're defined.
 - f) C considers the variables, number and NuMbEr to be identical.
 - g) A program that prints three lines of output must contain three printf statements.
- 7. What does the following code print?

- 8. Identify and correct the errors in each of the following statements. (Note: There may be more than one error per statement.)
 - a) scanf("d", value);
 - b) printf("The product of %d and %d is %d"\n, x, y);
 - c) Scanf("%d", anInteger);
 - d) printf("Remainder of %d divided by %d isn", x, y, x % y);
 - e) print("The sum is $%d\n," x + y$);
 - f) Printf("The value you entered is: %d\n, &value);
- 9. What, if anything, prints when each of the following statements is performed? If nothing prints, then answer "Nothing." Assume x = 2 and y = 3.

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a) printf( "%d", x );
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- b) printf("%d", x + x);
- c) printf("x=");
- d) printf("x=%d", x);
- e) printf("%d = %d", x + y, y + x);
- f) z = x + y;
- g) scanf("%d%d", &x, &y);
- h) /* printf("x + y = %d", x + y); */
- i) printf("\n");
- 10. State which of the following are true and which are false. If false, explain your answer.
 - a) C operators are evaluated from left to right.
 - b) The following are all valid variable names: _under_bar_ , m928134 , t5 , j7 , her_sales , his account total , a , b , c , z , z2 .
 - c) The statement printf("a = 5;"); is a typical example of an assignment statement.
 - d) A valid arithmetic expression containing no parentheses is evaluated from left to right.
 - e) The following are all invalid variable names: 3g, 87, 67h2, h22, 2h