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Tutorial 2

1. In C programming, comments are used to add explanatory or descriptive information within the code. They are ignored by the compiler and do not affect the program's execution.

Single-line Comments:

// This is a single-line comment

int x = 10; // Initializing a variable

Multi-line Comments:

/\*

This is a multi-line comment It can span multiple lines int x = 10; // This code is commented out

\*/

2.int main ()

3. The scanf function in C is used to read input from the user. It allows the program to receive data interactively during runtime. The purpose of scanf is to assign values to variables based on the user's input.

4. Yes

5. valid identifiers: record1, return, name, name\_and\_address

6.

a) False

b) False

c) True

d) False

e) True

f) False

g) False

7.

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8.

a) scanf( "d", value );

The format specifier in scanf is missing the % symbol, which is required to specify the type of data to be scanned.

b) printf( "The product of %d and %d is %d"\n, x, y );

The closing quotation mark is placed incorrectly before the newline escape sequence (\n).

The format control string in printf is incomplete and lacks the necessary placeholders for variables.

c) Scanf( "%d", anInteger );

The scanf function is written with a capital 'S', while it should be written in lowercase.

d) printf( "Remainder of %d divided by %d is\n", x, y, x % y );

The printf statement is missing a format specifier for the x % y expression. Additionally, there is no variable assigned to store the result of the remainder calculation.

e) printf( "The sum is %d\n," x + y );

The function name should be printf instead of print.

The comma after the format string is outside the quotation marks, resulting in a syntax error.

The sum of x and y is not enclosed within parentheses, causing a syntax error.

f) Printf( "The value you entered is: %d\n, &value );

The printf function is written with a capital 'P', while it should be written in lowercase.

The closing quotation mark is placed incorrectly before the comma after the format string.

The ampersand (&) is unnecessary before value because scanf requires the address of a variable, not printf.

9.

a) 2

b) 4

c) x=

d) x=2

e) 5 = 5

f) Nothing

g) Nothing

h) Nothing

i) A new line

10.

a) True

b) True

c) False: The statement printf("a = 5;"); is not an assignment statement. It is a printf statement that is used for printing text. The text "a = 5;" will be printed as it is, but it does not perform any assignment to a variable.

d) True

e) True