**Tutorial 02**

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# Question 1

In a C program, comments are used to provide explanations or notes about the source code. The purpose of comments is to make the code more readable and understandable, both for the programmer who wrote it and for other developers who may need to work with or modify the code in the future. They will be ignored by the compiler because of the syntax used.

There are two types of comments in C:

1. Single line comments

*// This is a single-line comment*

1. Multi-line comments

*/\**

*This is a*

*multi-line comment*

*\*/*

# Question 2

The main() function

# Question 3

The purpose of 'scanf' in C is to read input from the user or a data stream and store it in variables for further use in the program

# Question 4

Yes standard C is case sensitive

# Question 5

1. Valid
2. Invalid - identifiers cannot start with a number
3. Invalid - identifiers cannot include any special characters other than underscores
4. Invalid - identifier cannot be the syntax of a function
5. Invalid - identifier cannot include any special characters
6. Valid
7. Invalid - identifier cannot include any spaces in between
8. Invalid - identifier cannot include any special characters in between except for the underscore
9. Valid
10. Invalid - identifier cannot begin with a number and cant contain any special characters except for the underscore

# Question 6

1. False – prints in the same line unless \n is used
2. False – comments are ignored by the compiler and are only used to help the programmers understand the code better
3. True
4. True
5. True
6. False – C is case sensitive as so they will be considered as two different variables
7. False – it can also be done by using multiple \n within the same printf statement

# Question 7

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# Question 8

1. format specifier in scanf should be %d to read an integer value, and & is required because it is scanf needs the memory address of the variable to store the input value correctly

scanf("%d", &value);

1. \n should be placed inside the string, and a product variable is missing

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

1. & is missing for the variable, and scanf should be written with a lowercase s

scanf("%d", &anInteger);

1. format specifier for displaying the remainder hasn’t been added

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

1. function name print is used instead of printf, and the comma should be placed outside of the quotation marks

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

1. function name has a capital P, and the closing quotation mark for the string is missing

printf("The value you entered is: %d\n", value);

# Question 9

1. 2
2. 4
3. x=
4. x=2
5. 5=5
6. Nothing
7. Nothing
8. Nothing
9. Empty line

# Questions 10

1. True
2. True
3. False
4. True
5. True