I what is the name of the symbol "in" and what is the function of it?

Ans: The name of the symbol of "in" is new line.

The newline character is the symbol of "In" is reformed to as.

It is called an escape sequence and it forces the cursor to change its position to the beginning of the next line on seven.

127 Why obreen () is used?

An: It is used to clear the console serieen.

BY How much storage space does 1 character typically occupy?

An: 1 character typically occupies 1 byte of storage space.

[9] Where will the value of a variable be printed in the print of function?

Ans: In the 'print' henction in a progreamming, the value of a variable is printed based on the format specifier used in the format shing. The format specifier indicates how the variable should be formatted and displayed. It is a placeholder that gets replaced with the actual

value during rountime.

Example: int x = 10

printf ("The value of x is %d", x); In this case % dis the foremat specifier for integers.

15 What is a parcameter?

Ans: The variables that are defined when the function is declared are known as parameters.

[6] What do you mean by forematted output?

Ans: In a programming, bremailed output referres to the process of displaying data on the screen or writing it to a file in a specified foremat. The 'printf' function is commonly wed fore forematted output in C.

Example: # include <stdio.h> # include < conio. h> int main () {

[3] What do you mean by forematted input. ?

Ans: In c progreamming, forematted input refers to the process of reading input from the were one a file while specifying the expected format of the data. The scanf' function is commonly used for forematted input in c.

Example: # include <stdio.h>

int main () {

int num;

scanf ("%d", & num);

[8] What is comment line?

Ans: In progreamming, a comment line is a line of code that is not meant to be executed by the compute but is included in the source code to provide information or explanations for human readers.

The leading characters // are added to the beginning of each line when commenting. For multi-line comment ('/* comment */') is wed

19/What is a garbage value?

Ans: A. garchage value in c refores to a value.

That is storced in a variable without being initials...

ore assigned a prespec value.

210) What is control structure?

A control structure in programming refores to the decision - making and flow control mechanism that dictate how the instructions within a program are executed.

There are three main types of control structures:

1. Sequential structure: The default structure where statements are executed in a sequential order, one after the other.

2. Selection Structure (Conditional statements):

It involves decision making, allowing the program to execute different statements based on ceretain conditions

3. Iteration Structure (Loops)! It involves repeating a certain block of code multiple times, allowing for efficient prepetition of tasks.

II) How can one identify a function in c progressming?

Ans: In a programming, one can differentiate a hunction by its declaration, definition and invocation.

Declaration: Tells the compiler about function's name, return type and persameter types.

Definition: Provides the actual implementation of the function specifying what it does.

Invocation (call): Parcentheses are used to indicate a function call. It involves using the function in a code by providing arguments and potentially using the reducer value.

int add (int a, int b) {

int add (int a, int b) {

reduce atb;

int main () {

printf ("The Result: %d In", add (3,5));

return o;

[12] What is Boolean expression?

Ans: In C, Boolean is data type that contains two types of values, i.e., o and 1.

The book in C is a fundamental data type in most that can hold one of two values: true or false. It is used to represent logical values. Here, 'D' represent false to value, while '1' represent true value Boolean expression typically involves relational and logical operators.

Example: # include < stdio.h>

int main () {

int x = 5; int y = 10;

if (x<y){

// code runs when x is less than y

}

Prize.

13/ What is simple statement?

Ans: In C, a simple statement is a single, standalone statement that percforms a specific action. Simple statements are not composed of smaller statements and do not include control structures.

Example: # include <stdio.h>

int main(){

preintf ("This is a simple statement. \n");

return 0;

My What is compound statement?

Ans! A compound statement, also known as a block, is a greoup of statements in a preogreamming language that are treated as a single unit.

Compound statements are commonly used in control structures, such as if statements, loops (for, while) and function bodies.

100 may

txample; # include estdio.h)

int main () {

int x=5;

if (x70) {

int sum = x+y;

printf ("The sum is % d", sum);

}

seturn 0;

[15] What is loop?

Ans: A loop is a preogreamming construct that allows a set of instructions to be repeatedly executed as Ing as a certain condition is true.

There are several types of loops in programming, such as: 'fore', 'while', 'do-while' loop.

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16) What are the challeges of using scent()?

Ans: The limitations of scanf () are as follow:

scanf () cannot work with the string of characters.

It is not possible to enter a multiword string into a single variable using scanf().

To avoid this gets () function is used. It gets a string from the keyboard and is torminated when enter key is pressed

[17] What is string in a preoperamming?

Ans: A string in a programming is a sequence of charactors torminated with a null character '10'.

118.7 Difference between formal parameters and actual parcameters

(i) Foremal parameters are the parameters that oppear in the function declaration on definition.

Actual percameters, on the other hand, are the values on expressions that are passed to (ii) Foremal porcametors are like placeholds for the values that will be passed into the function.

Actual parameters are except real values that will be used by the function during execution:

(iii) Formal parameters are variables on identifiers used in the function signature to represent the values that the function expects to receive.

Actual parameters are to match the data type and order of the formal parameters.

18). What are the differences between the main function and a calling function?

Main Function	Calling function
OIT is the entry point of every c preogram.	Calling function is any function that calls another function
(ii) The main function has a retwen type of int' and typically retwens an integer value to the operating system.	other functions can have various resturn types, including void' or other data types.
(iii) The main function has a specific name, and it must be called main.	calling functions can have any valid a identifier as their name.

120/ What is a nested loop?

An: A nested loop in a progreamming refus to a loop (a sect of statement that are executed repeatedly) that is contained within another loop.

Example: # include < stdioih)

int main() {

fore (int i=1;i<=3;i++) {

fore (int j=1; j<=3;j++) }

printf ("%d, %d", i,j);

printf ("in");

}

return o;

121/What is parameter?

Ans: A parameter is a variable or placeholder in a function. It serves as a way to define what kind of data or values a function expects to receive.

122/What is arguement ?

Ans: An aveguement is a specified value or expression that is passed to a hunchion when it is called.

27 characteristics of Private Section of a class.

The ! In C++, a class is a user defined data type that encapsulates data and methods that operate on that data.

characteristics of Prevate section of a class:

- (1) Visibility! Members in the 'private' section are only accessible within the class itself. They are not directly accessible from outside the class.
- (ii) Member Functions: Private member functions are designed for internal use within the class and are not part of the public interface.

1247 characteristics of public section of a class:

- (i) Visibility! Members in the 'public's sections are accessible from outside the days.
 - (ii) Member functions! These functions represent the operations that extornal code can perform on the class.



[25] How to call a member function through object? In C++, one can call a member hinehm through an object using the dot (.) operator. Example: # include < 100 stream> public i void my F() { std:: cout << " calling my F In"; into main () ister and in internal use internal My class my Obj; Myobj. myf (); adding to east walnesson to he i sail or comemala : philadical is

25/What is file buffere?

Ans: In a progreamming, a file buffor is a temporcary storage area wed to hold data that is being riead from ore written to a file.

25/Why do we use "felose"?

Ans: In a preogreamming, 'felose' function is used to close a file stream that was previously opened wing the 'fopen' function or a similar file opening function.

A file must be closed as soon as all operations on it have been completed. This ensures that all outstanding inforcmation associated with the file is flushed out from the buffers and all links to the file are broken. Besides, we we use the felose() Ronchon for the following purposes:

- (i) To redease file resources (ii) To ensure data integrity
- (iii) To prevent data conscuption
- (iv) To avoid resource leats.

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Write details about different file modes.

In a, file modes are wed when opening a file wed using 'fopen' function. These modes determine the operations that can be performed on the file and whether the file will be oreasted or overwritten.

Different file modes:

- (1) "> Read mode: Opens the file for reading.
- (ii) "w"-Write Mode: Opens the file for writing.

 If the file abready enists, it truncates the file
 to zoro length. Oceans the file if it does not exist.
- (iii) "p+" read/Write Mode; Opens the file fore both reading and writing.

 File must exist.
- (iv) "w+" Read/Write Mode: Opens the file for both reading and writing. Oceans the file if it doesn't exist.
- (v) "at" Read / Append Mode: Opens the file for both reading and writing. If the file abready enists, it presorves the crusting content. Oreates the file if it doesn't exist.

