1. **What is the difference between call by value and call by reference?**

* Call by Value means calling a method with a parameter as value. Through this, the argument value is passed to the parameter. While Call by Reference means calling a method with a parameter as a reference. Through this, the argument reference is passed to the parameter.

1. **While loop format?**

* **Syntax:**

Initialization

While(test condition)

{

Body of the loop

Increment/decrement

}

1. **What is variable initialization and why is it important?**

* When you declare a variable, you should also initialize it. Initialization is the process of assigning a value to the Variable**.** Without initialization, a variable would have an unknown value, which can lead to unpredictable outputs when used in computations or other operations.

1. **What is the difference between the = symbol and = = symbol?**

* = operator is used to assign value to a variable and == operator is used to compare two variable or constants.

1. **What is the modulo oprater?**

* Modulus can be described as remainder after division. A c language can simply be described as the language for computer programming.

1. **What is nested loop?**

* A nested loop means a loop statement inside another loop statement. the outer loop encloses the inner loop. The inner loop is a part of the outer loop and must start and finish within the body of outer loop.

1. **What is syntax error?**

* A syntax error is an error in the syntax of a sequence of characters or tokens that is intended to be written in a particular programming language. For compiled languages, syntax errors are detected at compile-time. A program will not compile until all syntax errors are corrected.

1. **How do you access the values within an array?**

* We can access any array element using array name and subscript/index written inside pair of square brackets []. For Example: Suppose we have an integer array of length 5 whose name is marks. int marks[5] = {5,2,9,1,1};

1. **Can two or more operators such as \n and \t be combined in a single line of program code?**

* Yes. They are just characters. we can have newlines and tabs in any position and as many of them as we need.

1. **What is wrong in this statement? scanf(“%d”,whatnumber);**

* The right statement is scanf(“%d”,&whatnumber);

1. **What does the && operator do in a program code?**

* && means Logical AND. True only if all operands are true.

1. **What are reserved words?**

* Reserved words are words that are part of the c language. Reserved words have special meaning and therefore cannot be use for purpose.

Ex :- int, void, return.

1. **[A]what will this program print?**

**Main()**

**{**

**Int i=2;**

**{**

**Int i=4,j=5;**

**Printf(“%d%d,I,j);**

**}**

**Printf(“%d%d,I,j);**

**}**

**a)4525**

**b)2525**

**c)4545**

**d)none of the these**

* d) None ot the these

**[B] How many time will the following loop execute?**

**For(j=1;j<=10;j=j-1)**

**a)forever**

**b)never**

**c)0**

**d)1**

* b)never