Java Features:- JAVA has provided the following features.

1. **Simple**
2. **Object Oriented**
3. **Platform independent**
4. **Arch Neutral**
5. **Portable**
6. **Robust**
7. **Secure**
8. **Dynamic**
9. **Distributed**
10. **Multi-Threaded**
11. **Interpretive**
12. **High Performance**

1) Simple:
1)Java is using all the simplified syntaxes from C and C++.
2)Java is a simple programming language, because, Java applications will take less memory and less execution time.
3) Java has removed all most all the confusion-oriented features like pointers, multiple inheritance..... etc

2) Object Oriented:
Java is an object-oriented programming language, because, JAVA is able to store data in the form of Objects only.

3) Platform Independent: -Java is platform independent programming Language, because, Java allows its applications to compile on one operating system and execute on another operating system.

4) Arch Neutral:- Java is an Arch Neutral Programming language, because, Java allows its applications to compile on one H/W Arch and to execute on any H/W Arch.

5) Portable:- Java is a portable programming language, because, JAVA is able to run its applications under all the operating systems and under all the H/W Systems.

6) Robust: Java is a Robust programming language because Java is having very good memory management systems like garbage collection and dynamic memory allocation.

7) Secure: Java is a very good Secure programming language because of byte code.

To provide explicit security for the Java applications we are having a very good predefined library in the form of ***java.security*** package.

8) Dynamic:-Java is dynamic technology it follows dynamic memory allocation (at runtime the memory is allocated).

9) Distributed:-
By using java it is possible to develop distributed applications.

10) Multi-Threaded:-Java provide support of multithreading.

11) Interpretive::JAVA is both a compilative programming language and an Interpretive programming language.

12) High Performance:-JAVA is a high-performance programming language due to its rich set of features like Platform independence, Arch Neutral, Portable, Robust, and Dynamic,.....

Difference between C and Java Language.

C language	JAVA Language
C is a middle-level language and C is a structural and procedure-oriented programming language.	Java is a high-level language and it is an object-oriented programming language
It is compiled language and after compilation, it generates .exe file.	It is compiled and interpreter language and after compilation, it generates a .class file.
We can save the C language source file with .c extension.	We can save the Java language source file with .java extension.
It translates the code into machine language so that the machine can understand the code, so it is more secure.	It translates the code into a bytecode that is executed by the JVM so, it is more secure.
C is a platform-dependent language.	Java is a platform-independent language.
C language does not support garbage collection, exception handling, and multithreading	Java language support garbage collection, exception handling, and multithreading.
It supports the concept of the pointer.	It does not support the concept of pointers because of security.
There are 32 reserved keywords in C.	There are 53 reserved keywords in Java.

public modifier:-

The public modifier is applicable for variables, methods, and classes.

All packages are able to access public members.

Default modifier:-

It is applicable for variables, methods, and classes.

We are able to access default members only within the package and it is not possible to access outside the package.

Default access is also known as package-level access.

If we have not specified any modifier then it's treated as default.

private modifier:-

private modifier applicable for methods and variables.

We are able to access private members only within the class and it is not possible to access them even in child classes.

protected modifier:-

The protected modifier is applicable for variables, and methods.

We are able to access protected members within the package and it is possible to access outside packages also but only direct child classes.

But in the outside package, we can access protected members only by using child reference. If we try to use parent reference, we will get compile time error.