

Roll no: 160115733317

Java Features/Buzz words

java has many features which made it popular.

1.simple:

java is simple because it reduces the overhead of pointers.and uses garbage collector and it is easy to understand

2.object oriented:

java is pure object oriented programming language .every method should write inside the class only including the main() method.

3.Architecture neutral:

Java was designed to support applications on networks. ...

To enable a Java application to execute anywhere on the network, the compiler generates an architecture-neutral object file format--the compiled code is executable on many processors.

that is why java is Architecture neutral i.e, write ones run any where.

4.Portable:

We may carry the java bytecode to any platform. then we can run on any operating system. because of its jvm.

5.Secure:

java is secure because it executes everything in its jvm(java virtual machine).and also it does not support pointers.

6.High performance:

even though java is interpreted it has high performance .jvm has "just in time" compiler. it acts as a cache which stores frequently

used instructions due to which performance is increased.

7. Robust:

it is robust because it provides exception handling and dynamic allocation.

8. Multithreaded:

A thread is like a separate program, executing concurrently.

We can write Java programs that deal with many tasks at once by defining multiple threads.

The main advantage of multi-threading is that it doesn't occupy memory for each thread.

It shares a common memory area. Threads are important for multi-media, Web applications etc.

9. Interpreted:

java uses both compiler and interpreter .jvm acts as an interpreter.

10. Scalability:

11. Distributed:

We can create distributed applications in java.

RMI and EJB are used for creating distributed applications.

We may access files by calling the methods from any machine on the internet.