

❖ **Give example programs (at least 5) written in C and any other chosen high level language and explain their similarities and differences**

- Examples for programs Written in C
 1. Adobe photoshop
 2. Mozilla
 3. Autodesk Maya
 4. Winamp media player
 5. Symbian OS
 6. MySQL
- Examples for programs Written in Java
 1. Part of Google Maps
 2. Part of Open office
 3. Most of Android apps
 4. Part of Amazon website
 5. Part of Linkedin website

When considering about the programs written using C, it is obvious that those programs are very powerful tools of each field and do a heavy process while running. Developers of such programs chose C because of it provides wide variety of data types and functions. But, in Java based programs they are not specialized about performance. So, the complexity of java based programs are generally known as lower than the complexity of programs written using C. When discussing about this fact, 'MySQL' is a great example. MySQL is an open source database software, which was used in world's largest databases such as yahoo, Google, You tube and Wikipedia. MySQL was written using C!!!

There is another difference between C programming language and Java programming language. The portability of C is higher than Java. Programs written in C can be run on any compiler. But, Java programs need special platforms like Eclipse and Net beans.

However, when using C programmer should have a quite good knowledge regarding computer hardware such as memory management. (That's why C is known as a middle level language) But, Java doesn't need any special knowledge on computer hardware. It's also a difference between these two languages.

Another difference between C and Java is, C language has pointers which helps to save memory (by dynamic memory allocation), increase the efficiency of program to be written. But Java hasn't got pointers.

A similarity between these two languages is their user friendliness. Java is known as a high level language. Therefore, it is obvious that java is user friendly. But the specialty of language C is, it also has the high level feature of user friendliness, even if it is known as a middle level language.