

Comparison between JAVA, Python and C/C++

1. Comparison between JAVA and C/C++

Java	C/C++
Created for supporting Network Computing	Mainly for System Programming
Don't have compatibilities with previous version of programming language	C++ has compatibility with C source code except for some cases
Write Once Run Anywhere / Everywhere (WORA/WORE)	Write Once Compile Anywhere (WOCA)
OOP Paradigm	OOP / Procedural Programming
Runs in Virtual Machines	Low-level system Facilities
No support for Unsigned Arithmetic	Supports Unsigned Arithmetic
Not always provide full access to the features and performance of the platform that the software runs on	Simple and robust providing containers and associative arrays
Portability	Speed of Execution
Ease of development	Speed of execution

2. Comparison between JAVA/C(C++) and Python

JAVA/C(C++)	Python
Run faster	Runs slower
Take more time to develop	Take less time to develop
Low Level implementation language	"Glue" Language
Static Typing	Dynamic Typing
Have to declare types of arguments or variables	Don't have to declare variables

Creating Class Diagram

Client	Daemon
VarChoice = Variable	-
Public String getHelp = Method	-
Public String getUptime = Method	processUptime = Method
Public String getDiskSpace = Method	processDiskSpace = Method
Public String getProcess = Method	processProcess = Method
Public String getUserId = Method	processUserId = Method

Pseudocode

Var choice = choice;

Printf("Please Enter Your Choice: ");

Scanf(choice, &a);

If choice = help then

```
{  
    Printf(Command || Descriptionn/n);  
    Printf (#Uptime || Show the uptime of the computer/n);  
    Printf (#Space Disk || Show the disk usage and free space of the disk/n);  
    Printf (#Process || Show the process manager/n);  
    Printf (#User ID || Show the user who is log on the computer/n);  
}
```

Elseif (choice==Uptime) then

```
{  
    Printf("Date Now', +DD,HH,MM+");  
}
```

Elseif (choice==DiskSpace) then

```
{  
    Printf("Drive Letters', Free space : , Used Space: ");  
}
```

Elseif (choice==Process) then

```
{  
    Printf("show all of the process");  
}
```

Elseif (choice==UserID) then

```
{  
    Printf("how many users are login, your login account");  
}
```

Elseif (choice==exit) then

```
{  
    Close;  
}
```

[http://en.wikipedia.org/wiki/Comparison of Java and C%2B%2B](http://en.wikipedia.org/wiki/Comparison_of_Java_and_C%2B%2B)

<http://www.comp.lancs.ac.uk/~ss/java2c/diffs.html>

<http://www.python.org/doc/essays/comparisons.html>

<http://javanetbeans.net78.net/kb/60/uml/class-diagram.html>

http://wiki.answers.com/Q/What_is_the_difference_between_Java_and_the_C_programming_language