**What is a class?**

A class is simply a representation of a type of object. It is the blueprint/ plan/ template that describes the details of an object.

**What is the base class of all classes?**

java.lang.Object

**What is difference between Path and Classpath?**

Path and Classpath are operating system level environment variales. Path is used define where the system can find the executables(.exe) files and classpath is used to specify the location .class files.

**Explain about main() method in java?**

Main() method is starting point of execution for all java applications.

public static void main(String[] args) {}

String args[] are array of string objects we need to pass from command line arguments. Every Java application must have at least one main method.

**What is the argument of main() method?**

main() method accepts an array of String object as argument.

**Does the order of public and static declaration matter in main() method?**

No. It doesn't matter but void should always come before main().

**Which class is extended by all other classes?**

The Object class is extended by all other classes.

**Should a main() method be compulsorily declared in all java classes?**

No, not required. main() method should be defined only if the source class is a java application.

**What is the return type of the main() method?**

Main() method doesn't return anything hence declared void.

**Can we have multiple classes in single file?**

Yes. We can have multiple classes in single file but people rarely do that and not recommended. We can have multiple classes in File but only one class can be made public. If we try to make two classes in File public we get following compilation error. “The public type must be defined in its own file”.

**package** intquestions;

**public** **class** test{ //Error: Public type must be defined in its file

**public** **static** **void** main() {

System.***out***.println("hello");

}

}

**public** **class** testclass

{

**public** **static** **void** main(String[] args) {

System.***out***.println("hi");

test.*main*();

}

}

**What are identifiers in java?**

Identifiers are names in java program. Identifiers can be class name, method name or variable name.

**What is classpath?**

The path where our .class files are saved is referred as classpath.

JVM searches for .class files by using the class path specified.

Class path is specified by using CLASSPATH environment variable.

CLASSPATH environment variable can contain more than one value.

CLASSPATH variable containing more than one value is separated by semicolon.

Example to set class path from command prompt : set CLASSPATH= C:Program FilesJavajdk1.6.0\_25bin;.;

only parent directories need to be added to classpath.Java compiler will look for appropriate packages and classes.