

Fundamentals 1 (What is a class)

1. Create the following folder on your C:\ drive:
 - C:\<you_name>
 - For example if your name is lerato you'd create a folder called lerato on the C drive of your computer.
 - C:\lerato
 - Open the command prompt
 - Change directory to this folder.
2. In your own words provide a definition for the word in red.
 - Use [wiktionary](#).
 - provide a definition as used in the English language

class

Answer:	A class is a collection, a group of related things which share common goal but different in quantity and type.
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3. Create a sentence using the word in red.

Class

Answer:	I came to lean systems and was given a class filled with empty desks, and a clean discussion board.
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4. Using the links below provide a definition of the phrase in red.

java class

[Google search results for class](#)

<http://java.sun.com/docs/books/tutorial/java/concepts/class.html>

http://en.wikipedia.org/wiki/Class_%28computer_science%29

Answer:	Java class is a set of programming template used to organise and group related members , and providing them with values depending on their behaviour.
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5. A class is the smallest artifact that a developer can produce using the Java language.
Perform the following steps:

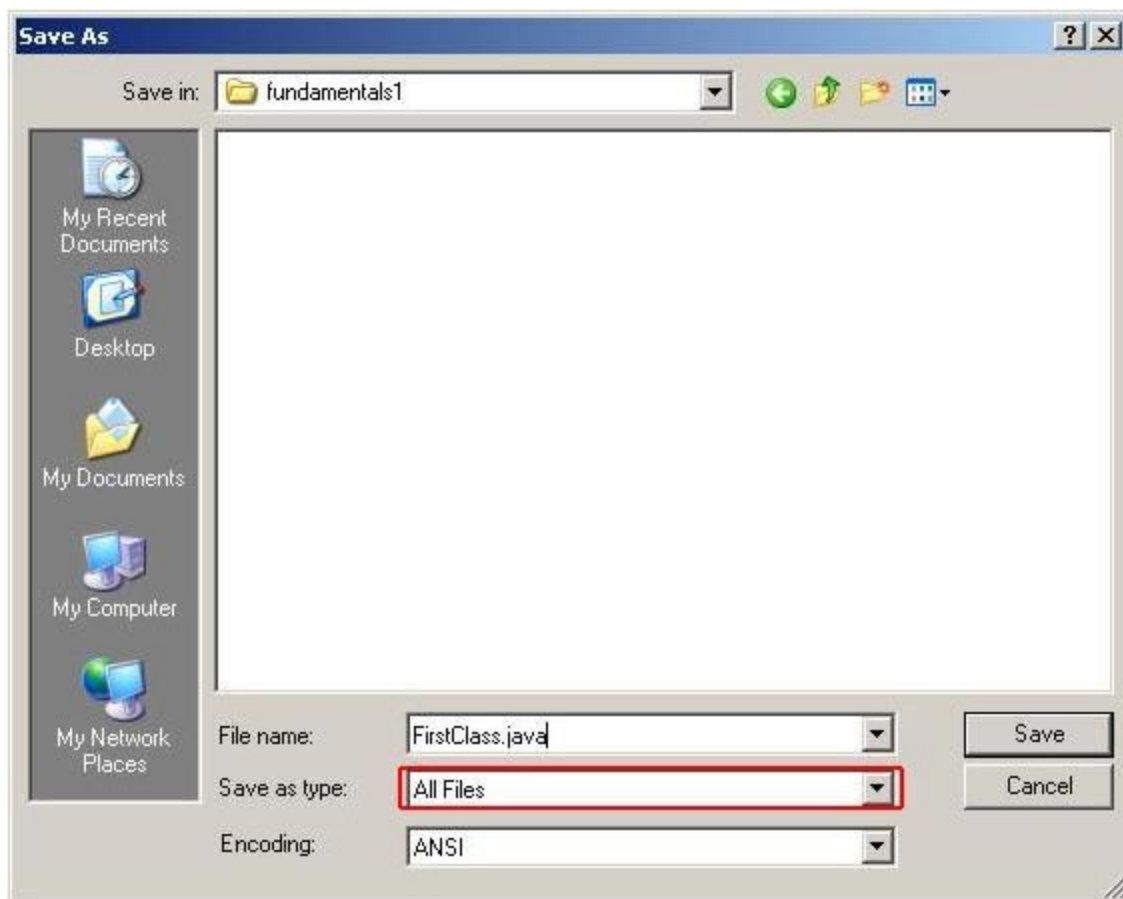
- Open notepad.
- Click Start Run
- Enter notepad in the pop-up that follows.



- Copy the following text into notepad:

```
public class FirstClass{}
```

6. Save the above file into a file called FirstClass.java in the following directory C:\<you_name>. Remember you must have created this folder as explained in step 1.



- When saving the file take note that the Save as type is All Files.

7. Compile the above class using the following command. **javac FirstClass.java**

8. Errors may come up in connection with the above file. Check for the following common mistakes.

- Java is case-sensitive that means First Class differs from Firstclass to the compiler. Therefore make sure that the filename and the contents thereof are as dictated in this tutorial.
- Notepad has a nasty habit of attaching the .txt extension to a file if you select the text documents type. If the file you created was saved as First Class.java.text it will not compile. Removing the .text in the file name will solve the problem.
- If the above step was executed successfully then the javac command must produce a file called FirstClass.class
- Open the FirstClass.class file in notepad. paste the contents of the file here:

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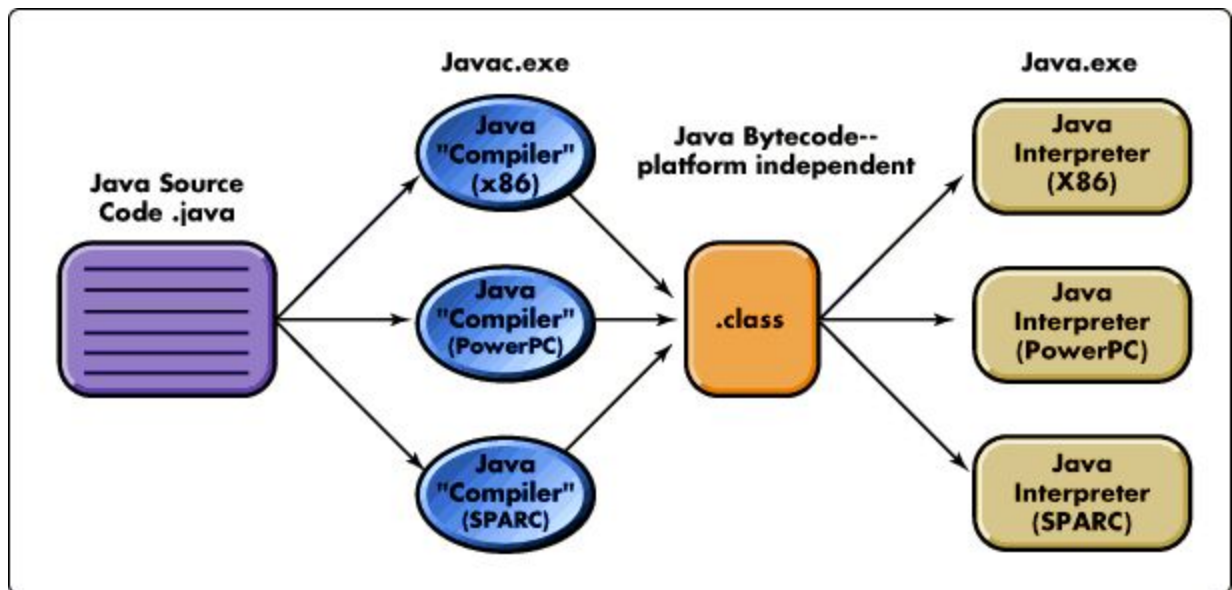
<init> ()V Code LineNumberTable

SourceFile FirstClass.java

FirstClass java/lang/Object !

*. ±

- The format of the FirstClass.class file is byte code. It is intended to run on all computer platforms without requiring recompilation.



9. There are a couple of steps that are involved in the life cycle of a java program. Following links can help with your understanding of the concept discussed in this chapter.

<http://java.sun.com/docs/books/tutorial/getStarted/cupojava/win32.html#win32-2c>

<http://mathbits.com/MathBits/Java/Introduction/mechanics.htm>

Using the links above provide a definition for the phrase "byte codes".

Answer:	Byte codes it is a language that which jvm understands in order to give a computer instructions on what to do
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