

Lab-1: 10.10.2023 Monday

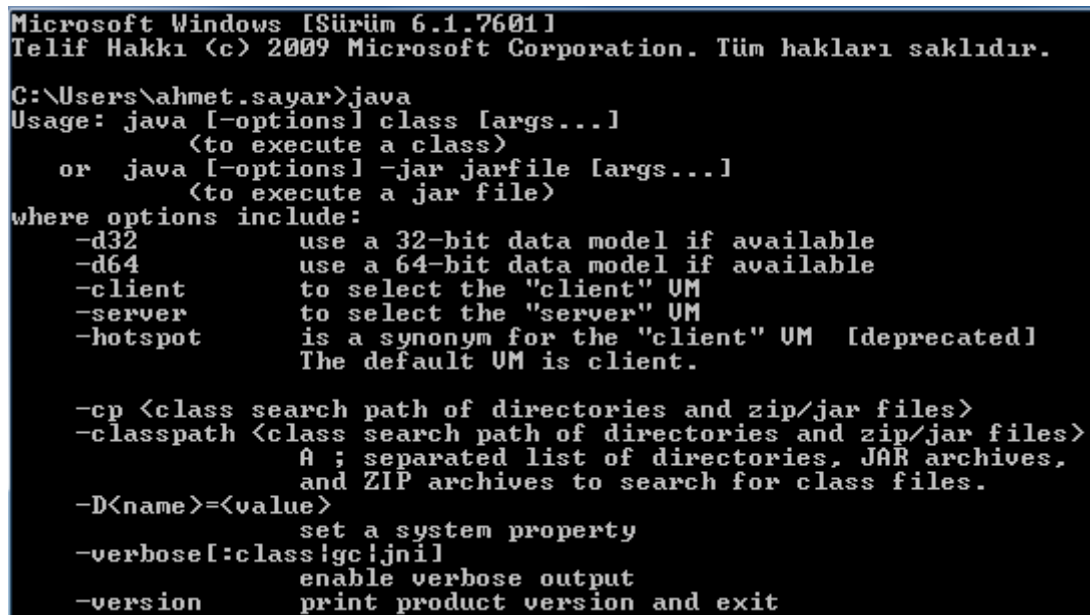
Compiling a simple program from the command console

Make sure java SDK is installed on your machine.

Open a command console

Start -> cmd -> enter

Type command "java"



```
Microsoft Windows [Sürüm 6.1.7601]
Telif Hakkı (c) 2009 Microsoft Corporation. Tüm hakları saklıdır.

C:\Users\ahmet.sayar>java
Usage: java [-options] class [args...]
           (to execute a class)
   or  java [-options] -jar jarfile [args...]
           (to execute a jar file)
where options include:
    -d32          use a 32-bit data model if available
    -d64          use a 64-bit data model if available
    -client       to select the "client" VM
    -server       to select the "server" VM
    -hotspot      is a synonym for the "client" VM [deprecated]
                   The default VM is client.

    -cp <class search path of directories and zip/jar files>
    -classpath <class search path of directories and zip/jar files>
                   A ; separated list of directories, JAR archives,
                   and ZIP archives to search for class files.
    -D<name>=<value>
                   set a system property
    -verbose[:class[:gc[:jni]]
                   enable verbose output
    -version      print product version and exit
```

Did you see something like the figure above? If YES, it means java SDK (or JDK) is installed and you are ready to compile and run any java class. If NO you need to install java SDK.

Please do somethings listed below before trying to compile and run any java class. First, install java SDK from the official web site. And then, right click on My Computer -> properties -> Advanced system Settings -> Environment Variables -> find variable PATH

Add path to java bin directory (example: C:\Program Files\Java\jdk1.7.0_02\bin) to end of PATH variable. This is very old java version. You need to find one of the latest java versions.

Appication:

Go to any location C:\[any_location]

Create a folder named greetings.

Go to C:\[any_location] \ greetings

Open a text file and copy-paste below Hello.java class into it and save.

```
package greetings;
```

```
public class Hello {  
    public static void main(String[] args) {  
        for (int i=0; i < args.length; i++) {  
            System.out.println("Hello " + args[i]);  
        }  
    }  
}
```

Put Hello.java into C:\[any_location] \ greetings
You should see Hello.java under that director as below:

```
C:\[any_location] \ greetings> dir  
Hello.java
```

You can create this file by using textpad or notepad. This file is automatically saved as .txt files. Try to convert it to .java. To do so follow the below steps.

Tools – Folder Options – View – remove the tick from “Hide extensions for known file types”

Türkçe ise windows:

1. Windows Gezgini'ni başlatın; bunun için herhangi bir klasörü açmanız yeterlidir.
2. Düzenle'yi tıklayın.
3. Klasör ve arama seçenekleri'ni tıklayın.
4. Görünüm sekmesini tıklayın.
5. Bilinen dosya türleri için uzantıları gizle seçeneğini bulun ve onay kutusunu tıklatarak seçimini kaldırın.
6. Tamam'ı tıklayın.

Hello.txt dosyasının txt uzantısı görünce txt yi java yapın. Artık Hello.txt Hello.java olmuştur ve compile edilebilir haldedir.

Lets compile and run as below:

Locate yourself in C:\[any_location] >

```
C:\[any_location] > javac greetings/Hello.java  
C:\[any_location] > dir greetings  
Hello.class  Hello.java  
C:\[any_location] > java greetings.Hello World Universe Everyone  
Hello World  
Hello Universe  
Hello Everyone
```