



UNIVERSITY OF
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CPSC 233 – Tutorial Session

Introduction to Java and Eclipse

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Who am I?

- My name is **Sepehr Sabour**
I am a computer science master student
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About CPSC 233

- Learning Goals:
 - Object-oriented Programming (OOP)
 - Java Programming Language
 - Team programming
- Activities:
 - Tutorials
 - Code Challenges (You need CPSC account)
 - Project (You need a team)



What is Java

- Java is a general-purpose object-oriented programming language released on 1996.
- Java is Compiler based language
- Java codes run on the Java virtual machine (JVM)
- We need Java Development Kit (JDK) to develop java programs
- How to install:

https://java.com/en/download/help/download_options.xml



Work with Linux Command Line

Purpose	Command	Example
Move into a directory	cd [directory address]	cd Desktop
Move back from a directory	cd ..	
Jump to the home directory	cd ~	
List the contents of a directory	ls	
Create a new directory	mkdir [directory name]	Mkdir MyFolder
Create a new file	touch [file name]	touch MyFile.java
Remove a file	rm [file name]	rm MyFile.java
Copying a file	cp [file name] [destination]	cp MyFile.java Desktop
Editing a file with gedit	gedit [file name]	gedit MyFile.java
Compiling a java code	javac [file name]	javac MyFile.java
Executing a compiled code	java [compiled file]	java MyFile



Hello World!

- Create a java file called Main.java
- Add java skeleton into the file
- Add the following line to the code:

```
System.out.println("Hello World!");
```

- Compile the code
- Execute the compiled code



Java Code Skeleton

```
public class YouClassName{  
    public static void main(String args[]) {  
        Youd code goes here!  
    }  
}
```




Eclipse IDE

- Underlining of compile errors
- Syntax highlighting
- Code completion on typing
- Easy .jar exporting
- Managing files and packages

How to install Eclipse:

<https://www.eclipse.org/downloads/packages/installer>



Create a project in Eclipse

