## **JARs (Java Archives)**

- Used to package a collection of files/directories together
  - If it is to be an executable package, it must include a "manifest" file that specifies the class whose main method is to be executed.
- Packing files

```
jar cvfM jarFile file1 file2 file3 dir1 dir2 // Precludes a manifest file jar cvfm jarFile manifestFile file1 file2 file3 dir1 dir2
```

Unpacking files
jar xvf jarFile

- Manifest file: used to create a executable jar file
  - The contents specifies the class path to the main method to be executed.

e.g., bankManifestFile.mf

Main-Class: startup/Startup

Warning: the (last) line must end with a new line or carriage return.

– Executing a jar file:

java –jar jarFile

Using Eclipse to create a JAR file: select the project; Export; Java; JAR file;
Include class files and source files, and export destination.
On the third page, specify the main class for manifest file.