

Homework 1

Do this homework for attendance at the first
laboratory session

Creating directories on disk

1. Click on **Start** / Programs / Accessories / Command Prompt.

Alternatively, click on **Start** / Run and here type **cmd**.

You should get a black window (the command **prompt window**) that says something as:

```
C: \>
```

or

```
C: \xxx... .xxxx>
```

2. In the second case use the command `cd ..` to reach `C:\>`

3. To create a new directory `FILS05` on the `C:` logical drive, write :

```
md FILS05
```

```
cd FILS05
```

You will obtain the prompt:

```
C: \FILS05>
```

4. Now, you may create your work directory with your family name, for instance **Popescu**.

```
C: \FILS05>md Popescu
```

```
C: \FILS05>cd Popescu
```

```
C: \FILS05\Popescu>
```

Exercise 1

1. Click on **Start** / Programs / Accessories / Notepad for opening the Notepad window. Notepad is a simple text editor that will help you to edit your Java programs.

2. Write in the Notepad window the following program:

```
public class Ciao {  
    public static void main(string[] args){  
        System.out.println("Ciao, gentre!");  
    }  
}
```

3. With **File** / **Save As** save the file in your directory.

4. Compile it with:

```
javac Ciao.java
```

5. Read carefully the error messages.

6. Debug, save and re-compile the program until its compilation will be successful.

7. When the program is OK, execute the program with:

```
java Ciao
```

Exercise 2

1. Modify the previous program as in the followings:

```
public class Ciao {  
    public static void main(String[] args){  
System.out.println("Ciao, ");  
System.out.println("gente!");  
    }  
}
```

Compile and execute it. Note the result.

2. Modify the following instruction in the program:

```
System.out.println("Ciao, ");
```

in:

```
System.out.print("Ciao, ");
```

Note the result.

Exercise 3

Write a program for displaying on the screen your name in a rectangle like in the following example:

```
+-----+  
| Philip |  
+-----+
```

Exercise 4

Write with Notepad the following program, save and execute it:

```
public class Errori {  
    public static void main (String[] args) {  
        int a;  
        a=5;  
        int b;  
        int c;  
        c=a/b;  
        System.out.println( c);  
    }  
}
```

If there are compilation errors correct them.

Exercise 5

Complete the following program for computing and displaying the average of three real numbers, calculate their average. Use the double type. Compile and execute it.

```
public class Media {  
    public static void main(String[] args) {  
        double a, b, c;  
        a=2.2;  
        b=3.3;  
        c=10;  
        ...  
    }  
}
```

Exercise 6

Declare a new variable `d` in the previous program and initialise it with the average. Then visualise it with `System.out.println()`. Explain the result of visualisation:

Exercise 7

Modify the previous program for visualising the average with only two decimals. Use for this the static method `Math.round(double val)` which returns the closer integer of the parameter `val`.