

Exercise 1: Compilation and execution.

Edit, compile and execute the following program:

```
public class Test
{
    public static
    void main (String[] args)
    {
        System.out.println("An Emergency Broadcast");
    }
}
```

Hints:

- Store the program in a file having the name `Test.java`
- Compile the program by using the command `javac Test.java`
- Execute the program by using the command `java Test`

Exercise 2: Errors.

Introduce the following changes, one by one, in the `Test` program. Undo the previous change, before you introduce the next one. Which changes give rise to error messages by compiler and why?

1. Replace `Test` with `test`
2. Replace `Emergency` with `emergency`
3. Replace `println` with `bogus`
4. Remove the semicolon from the end of the `println` statement

Exercise 3: Home page and tax program

1. Familiarize yourself with the course homepage: www.imm.dtu.dk/courses/x, where **x** is the course number, e.g. 02100, 02115, 02199 or 02312.
2. Download `Tax2.java` from the page with exercises.
3. Extend the program, such that it also calculates the “bundskat” (English: bottom/basic tax) for year 2000 and prints the result on the screen. Also make comments in the program.
4. Compile and execute the program.

Hint: The Danish income tax for year 2000 was composed of the following parts:

- ambi (Danish: arbejdsmarkedsbidrag): 8 % of the income
- special pension payment (Danish: særligt pensionsbidrag): 1 % of the income
- local taxes (Danish: kommune-, amts- og kirkeskat): not explained here
- bottom/basic tax (Danish: bundskat): 7 % of the income after ambi, special pension payment (særligt pensionsbidrag) and personal allowance (personfradrag) have been subtracted.
- intermediate tax (Danish: mellemskat): not explained here
- top tax (Danish: topskat): not explained here

The personal allowance (Danish: personfradrag) was 33.400 kr.

Exercise 4: 2nd collection of overheads

Fill out the tables in the 2nd collection of overheads.