

Assignment 1

- create a program for copying files
 - source and target files are given as program parameters
 - try copying using streams and using the NIO package (the methods `transferFrom/transferTo`) and also using `Files.copy()`
- change the previous program so that the second parameter is either file or directory
 - in the case of a directory, the file is copied to the directory and its name is not changed

Assignment 2

- create the **adduser** program, which add a user to a UNIX system
 - users are in the file `/etc/passwd`
 - create a copy of the file and make changes to the copy
 - format of the file available in the manual page
 - `man 5 passwd`
 - program will be interactive
 - asks the user about his/her user-name
 - tests whether the user-name exists
 - suggests a UID
 - testes whether UID can be used
 - offers the home directory
 - `/home/username`
 - offers a shell

Assignment 3

- update the “formatting” program from the previous practicals so it can take another optional parameter with a name of file, to which the result should be written
 - without it, it is written to the std output

Tests...

Test 1

- What is printed out

```
public class Test01 {  
    private static java.util.Random rnd = new java.util.Random();  
  
    public static void main(String[] args) {  
        StringBuffer word = null;  
        switch (rnd.nextInt(2)) {  
            case 1: word = new StringBuffer('P');  
            case 2: word = new StringBuffer('G');  
            default: word = new StringBuffer('M');  
        }  
        word.append('a');  
        word.append('i');  
        word.append('n');  
        System.out.println(word);  
    }  
}
```

- A Pain or Gain or Main, differently each start
- B always Pain
- C always Gain
- D always Main
- E something else
- F cannot be compiled

Test 2

- What is printed out

```
public class Test02 {  
    public static void main(String args[]) {  
        System.out.println("H" + "a");  
        System.out.println('H' + 'a');  
    }  
}
```

- A Ha Ha
- B Ha
- C something else
- D cannot be compiled



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