

Assignments

- Write a program that prints out a multiplication table for a number given as its command line argument
 - but this time with correctly aligned numbers and operators

```
1 * 8 = 8
9 * 8 = 72
10 * 8 = 80
```

Assignments

- Write a program that as the commandline argument accepts a *path* to a file (e.g., /home/petr/myfile.py) and print the individual path elements and the file extension
 - Should work correctly also for paths without extensions or without directories
- Write a program that as the commandline argument accepts a number **n** and computes the value of **$n+nn+nnn$**

Assignments

- Write a program that as the command-line argument accepts two non-negative integers and prints out a number of primes between these integers
 - the program should accept the integers in any order, i.e., `count_primes.py 0 10` and `count_primes.py 10 0` have to give the same value

Assignments

- Write a program that accepts a string as a command-line argument and prints out all permutations of the string
 - If the string contains the same character multiple times, the program may print out several lines that are the same (i.e. all characters are treated as distinct)
 - The order in which permutations are printed does not matter

```
print_permutations.py abc
```

```
abc
```

```
acb
```

```
bac
```

```
bca
```

```
cab
```

```
cba
```

Assignments

- Write a program that for a given number prints out a binary tree that has so many levels
- **Example: tree of 4 levels**

```
      *
     * *
    *  *
   *   *
  *    *
 *     *
*      *
* *    * *
*  *  *  *
* * * * *
* * * * * *
```



The slides are licensed under a [Creative Commons Attribution-NonCommercial 4.0 International License](https://creativecommons.org/licenses/by-nc/4.0/).