

# C2110 *UNIX and programming*

## Lesson 8

**PS / 2020 Distance form of teaching: Rev1**

Petr Kulhanek

[kulhanek@chemi.muni.cz](mailto:kulhanek@chemi.muni.cz)

National Center for Biomolecular Research, Faculty of Science  
Masaryk University, Kamenice 5, CZ-62500 Brno

# Lollipop Competition

---



# Homework

## Instructions:

1. The tasks listed are for **advanced students**.
2. **The goal of the tasks is to develop your ability to solve problems that are seemingly unsolvable in terms of the options and resources available to you.** In the case of bash this is mainly a possibility to work only with integer arithmetic and a limited way of plotting to the terminal.

## Assignment:

1. Draw a disk of “X ” characters. The radius of the disk is entered by the user after running the script.
2. Draw a circle of characters “X ”. The radius of the circle is entered by the user as the first argument of the script.

Successful solvers will receive a lollipop (handed over at the exam).