

# Home exercise

Testing and presets

# The exercise

- git pull (or git clone [https://github.com/alexkushnir/cmake\\_course](https://github.com/alexkushnir/cmake_course))
- Exercise is in exercises/exercise\_04/skeleton
- Solution is in exercises/exercise\_04/solution
- We want to manage the unit tests for the basicmath library from exercise\_03
- Also, we want to write several workflow presets

# The exercise – tests

- Create executable target from Tests.cpp
- Get the googletest library (by any method you've learned so far)
- Link the needed libraries to the target
- Register the tests with CTest
- Run the tests (using ctest executable)
- Bonus 1 – write a test that finds a "bug" in the code (hint – think how fold expressions are evaluated)
- Bonus 2 – make the tests to build conditionally (for example, pass a command-line parameter)

# The exercise - presets

- We want to create 2 workflows:
  - Compile only the app
  - Compile only the tests
- For that purpose, all the steps must be created
- Limitation while using presets - [link](#)
  - Try to think of a way to bring the generated CTestTestfile.cmake to CMAKE\_BINARY\_DIR (hint – look at 25\_cmake\_and\_conan/01\_simple\_project and [link](#) )