

Object-oriented Programming in C++

Practical Worksheet 11

Questions

*(Questions marked * need to be submitted to the NOW dropbox.)*

(Make a Visual Studio solution file by creating a new Visual Studio project for the first question. Add .cpp files, etc. Add further Visual Studio projects to this solution for each question.)

LECTURE 11 - Operator Overloading and Recursion

39. Write your own `Angle` class for which the data is an integer representing an angle in degrees anticlockwise in the range $0^\circ - 359^\circ$. Overload operators `+`, `-`, `+=`, `-=`, `++`, `--`, `<<`, `>>` with appropriate code (e.g. the increment operators must replace 359° with 0°).
- 40*. Write an overloaded assignment operator and a copy constructor for your `Car` class, so that an existing car can be copied and the copy given a different owner (without causing any problems, cf. question 31).