

Object-oriented Programming in C++

Practical Worksheet 6

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 6

38. Modify your Car class from question 29 (or, better, question 31) so that it is a base class for inherited classes `FamilyCar` (with extra data, e.g. `numberOfSeats`) and `SportsCar` (with extra data, e.g. `maxAcceleration`). (Invent your own, if you can think of better ones.)
- You need to provide constructors and display functions for each of the inherited classes but make sure you use the base class functions whenever possible, rather than rewriting existing code.
 - Write a program to store some cars dynamically, using an array of pointers to `Car`, and display them.
 - Does it display *all* the data about the cars, including the data not in the base class?
 - Does it deallocate all memory correctly?
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