

C++ Homework 05

1. Write a class name Engine(done in 5-1)
 - a. with three private member variables: CC, type, weight
 - b. Write a default and non default constructor
 - c. Write all five special member functions , and invoke each special member function with the messages to confirm °
 - i. for example: in move constructor: `cout<< "invoking move constructor!"<<std::endl;`
2. Write a class name Car.
 - a. with a private member variable: my_engine, its type is Engine.
 - b. In constructor or assignment operator, give my_engine a value.
 - c. Write a "global" function: `void check_engine(Car&)` and call it to print the information of engine in main function.(Try to use friend)
 - d. Write a public member function of Car: `void check_my_engine(void)` and call it print the information of engine in main function.
3. Write a class name Police, no member variable.
 - a. Write a static member function: `void check_car(Car&)`, could print engine information of Car. Call this function by `Police::check_car(Car&)` in main function.