

Member Function Inheritance Solutions

- What is meant by member function inheritance?
 - A child class automatically acquires or “inherits” all the non-private member functions of its parent
- Write some simple code to show how a child class can re-implement a parent class member function
- Write some simple code to show how a child class can extend a parent class member function

- Write some simple code in which a child class overloads a member function from its parent
- What problems can occur in this situation? Suggest a way to overcome them
 - The parent's function will be “hidden” in the child
 - This can be solved by implementing the member function in the child to call the parent's member function
 - A better solution is to put “using” in front of it in the child class
using Vehicle::accelerate;

- What does the protected keyword do?
 - A member function that is protected in a class is not part of the class's interface
 - It can be called by member functions in child classes
 - It can be inherited by child classes of the class
 - It cannot otherwise be called by code outside the class