ENSF480 F2021 Lab 4

Beau McCartney, Apostolos Scondrianis, October 22, 2021

# exA

Diagram

Description automatically generated

# exB

Diagram

Description automatically generated

# exC

*// Car.h*

#include <string>

#include "Vehicle.h"

using *namespace* std;

final *class* Car: *public* Vehicle {

*private:*

*int* seats;

*public:*

        Car();

        Car(*int*, string);

*void* setSeats(*int*);

*int* getSeats();

*void* forward();

*void* backward();

*void* move();

};

*// Vehicle.h*

#include <string>

#include "Moveable.h"

#include "Resizeable.h"

using *namespace* std;

*class* Vehicle: *public* Moveable, *public* Resizeable {

*protected:*

        string name;

*public:*

        Vehicle(string);

*virtual* *void* move() = 0;

*void* setName(string);

        string getName();

};

*// Moveable.h*

*class* Moveable {

*public:*

*virtual* *void* forward() = 0;

*virtual* *void* backward() = 0;

};

*// Resizeable.h*

*class* Resizeable {

*public:*

*virtual* *void* enlarge(*int*) = 0;

*virtual* *void* shrink(*int*) = 0;

};

# exD

Diagram, schematic

Description automatically generated

# exE

Diagram, engineering drawing

Description automatically generated