// comsc 200

// main.cpp

// As7

// completed

// Created by Jeff on 10/3/16.

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//

#include <iostream>

#include <string>

//Ship.h

//CruiseShip.h

//CargoShip.h

using namespace std;

class ship{

private:

string name;

int year;

public:

ship()

{

name ="Lolipop";

year = 1960;

};

ship(string n, int y){

name = n ;

year = y ;

};

void setName(string n){

name = n;

}

void setYear(int y){

year = y;

}

string getName()const{

return name;

}

int getYear()const{

return year;

}

void display() {

cout << "Name : " << this->getName() << "\n" << "Year built : " << getYear() << "\n";

};

};

class cruise : public ship{

private:

string name;

int Max;

public:

cruise()

{

name ="Disney Magic ";

Max = 2400;

};

cruise(string n, int m){

name = n ;

Max = m ;

};

void setName(string n){

name = n;

}

void setMax(int m){

Max = m;

}

string getName()const{

return name;

}

int getMax()const{

return Max;

}

void display(){

cout << "Name : " << this->getName() << "\n" << "Maximum passengers : " << getMax() << "\n";

}

};

class CargoShip : public ship{

private:

string name;

string cargo;

public:

CargoShip()

{

name ="Black Pearl ";

cargo = "50000 tons";

};

CargoShip(string n, int c){

name = n ;

cargo = c ;

};

void setName(string n){

name = n;

}

void setCargo(int c){

cargo = c;

}

string getName()const{

return name;

}

string getCargo()const{

return cargo;

}

void display(){

cout << "Name : " << this->getName() << "\n" << "Cargo capacity: : " << getCargo() << "\n";

}

};

int main() {

// insert code here...

cout << "\n---------\n";

ship \*s = new ship();

cruise \*c = new cruise();

CargoShip \*car = new CargoShip();

s->display();

cout << "\n---------\n";

c->display();

cout << "\n---------\n";

car->display();

}

