

## TestNotes/pset2/ShipTest.java

```
1 // ShipTest.java
2
3 /**
4  * PSET2 #5
5  * Test class for Ship hierarchy by creating instances of CruiseShip and CargoShip.
6  * Displays ship information for each ship in the array.
7  *
8  * @author Kuljit Takhar
9  * @version October 8, 2023
10 *
11 */
12
13 public class ShipTest {
14     public static void main(String[] args) {
15         Ship[] ships = new Ship[4];
16
17         // Create instances of CruiseShip and CargoShip with specific properties
18         ships[0] = new CruiseShip("Cruise1", 2000, Ship.EngineType.DIESEL, 2000,
19 false);
20 ships[1] = new CruiseShip("Cruise2", 2010, Ship.EngineType.ELECTRIC, 1500,
21 true);
22 ships[2] = new CargoShip("Cargo1", 1995, Ship.EngineType.GAS_TURBINE, 5000.0);
23 ships[3] = new CargoShip("Cargo2", 2005, Ship.EngineType.STEAM_ENGINE, 8000.0)
24 ;
25
26 // Initialize the remaining elements with null
27 for (int i = 4; i < ships.length; i++) {
28     ships[i] = null;
29 }
30
31 // Display information for each ship in the array
32 for (Ship ship : ships) {
33     if (ship != null) {
34         System.out.println(ship.toString());
35     }
36 }
37 }
```