Selected files

4 printable files

CS5800_Q3\src\com\cpp\cs5800q3\CargoShip.java
CS5800_Q3\src\com\cpp\cs5800q3\CruiseShip.java
CS5800_Q3\src\com\cpp\cs5800q3\CS5800_Q3.java
CS5800_Q3\src\com\cpp\cs5800q3\Ship.java

CS5800_Q3\src\com\cpp\cs5800q3\CargoShip.java

```java
1   package com.cpp.cs5800q3;
2
3   public class CargoShip extends Ship {
4
5       private int cargoCapacity;
6
7       public CargoShip(String name, String year, int cargoCapacity) {
8           super(name, year);
9           this.cargoCapacity = cargoCapacity;
10      }
11
12      public int getCargoCapacity() {
13          return cargoCapacity;
14      }
15
16      public void setCargoCapacity(int cargoCapacity) {
17          this.cargoCapacity = cargoCapacity;
18      }
19
20      @Override
21      public void print() {
22          System.out.println("Cargo Ship name: " + getName() + " | " + "Cargo Capacity (tonnage): " + cargoCapacity);
23      }
24
25  }
26
27
```

CS5800_Q3\src\com\cpp\cs5800q3\CruiseShip.java

```java
 1  package com.cpp.cs5800q3;
 2
 3  public class CruiseShip extends Ship {
 4
 5      private int maxNumOfPassengers;
 6
 7      public CruiseShip(String name, String year, int maxNumOfPassengers) {
 8          super(name, year);
 9          this.maxNumOfPassengers = maxNumOfPassengers;
10      }
11
12      public int getMaxNumOfPassengers() {
13          return maxNumOfPassengers;
14      }
15
16      public void setMaxNumOfPassengers(int maxNumOfPassengers) {
17          this.maxNumOfPassengers = maxNumOfPassengers;
18      }
19
20      @Override
21      public void print() {
22          System.out.println("Cruise Ship name: " + getName() + " | " + "Max Num. of Passengers: " + maxNumOfPassengers);
23      }
24
25  }
26
27
```

CS5800_Q3\src\com\cpp\cs5800q3\CS5800_Q3.java

```java
 1  package com.cpp.cs5800q3;
 2
 3  public class CS5800_Q3 {
 4
 5      public static void main(String[] args) {
 6          Ship[] ships = new Ship[3];
 7
```

```
 8            ships[0] = new Ship("Ship Brandon", "2025");
 9            ships[1] = new CruiseShip("Disney Cruise", "2012", 3005);
10            ships[2] = new CargoShip("Carry Cargo Ship", "1900", 150000);
11
12            for (Ship s: ships) {
13                s.print();
14            }
15
16        }
17
18 }
19
```

CS5800_Q3\src\com\cpp\cs5800q3\Ship.java

```
 1  package com.cpp.cs5800q3;
 2
 3  public class Ship {
 4      private String name;
 5      private String year;
 6
 7      public Ship(String name, String year) {
 8          this.name = name;
 9          this.year = year;
10      }
11
12      public String getName() {
13          return name;
14      }
15
16      public void setName(String name) {
17          this.name = name;
18      }
19
20      public String getYear() {
21          return year;
22      }
23
24      public void setYear(String year) {
```

```
25          this.year = year;
26      }
27
28      public void print() {
29          System.out.println("\nShip name: " + name + " | " + "Year Built: " + year);
30      }
31
32  }
33
```