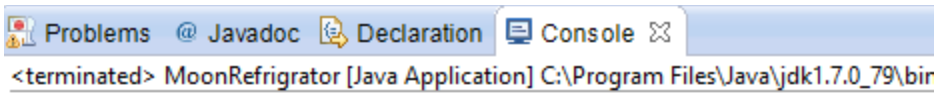
MoonRefrigirators company, a refrigerators manufacturing company
Manufactures a large number of refrigerators. A refrigerator possesses certain features and attributes and must behave in a certain manner. The company documents these attributes as a blueprint, which is used to manufacture the refrigerator.
1. What is this blueprint called in an object-oriented programming language? Identify the class and objects and the various attributes of an object of the Class.
2. The manufacturer does not want that a user should tamper with the Electrical wiring in the refrigerator, and hence must be hidden from the User. Identify the feature of object-oriented programming that best Describes the feature of data or information hiding.
3. A person operation the refrigerator need not know the details of how the Refrigerator works. The person just needs to know how to switch on and Off an oven, and change the temperature settings. Identify the feature OOPS that allows the user to ignore the irrelevant details of working of a Refrigerator and concentrate on the essentials.
4. All refrigerators have certain common attributes and functionality. For Example every refrigerator has a door. Different companies add various Additional features to the basic functionality of a refrigerator. Identify a Sub class of the Refrigerator class. Identify the property OOPS, in which The existing features of a class can be reused by another class and what is Its advantage.

```
import java.util.Scanner;

class Wiring {//using encapsulation
	private String wiringType;

	public String wiringType() {
		return wiringType;
	}

	public String getWiringType() {
		return wiringType;
	}

	public void setWiringType(String wiringType) {
		this.wiringType = wiringType;
	}
}

abstract class Mprocess {
	abstract void door();

	abstract void colour();

	abstract void size();

	abstract void temperature();

}

class Refrigrator extends Mprocess {
	Scanner rf = new Scanner(System.in);

	void door() {
		System.out.println("Available Refrigrators with perticular Door");
```

```
                System.out.println("1.Single Door" + "\n" + "2.Double Door" + "\n"
                                + "Enter your Door Choice");
                int choice = rf.nextInt();
        }

        void colour() {
                System.out.println("Available Colours");
                System.out.println("1.White" + "\n" + "2.Red" + "\n"
                                + "Enter your Colour Choice");
                int colour = rf.nextInt();
        }

        void size() {
                System.out.println("Available Capacitys for Refrigrator");
                System.out.println("1.500Liters" + "\n" + "2.250Liters" + "\n"
                                + "Enter your Capacity Choice");
                int size = rf.nextInt();
        }

        void temperature() {
                System.out.println("Temperature");
                System.out.println("1.High" + "\n" + "2.Medium" + "\n " + "3.Low"
                                + "\n" + "Enter your Temperature Choice");
                int temp = rf.nextInt();
                System.out.println("You can change the temperature by adjusting temperature button");
        }
}

/*
 * class Oven extends Mprocess{
 *
 * }
 */
public class MoonRefrigrator {

        public static void main(String[] args) {
                Scanner mr = new Scanner(System.in);
                System.out.println("Welcome to Moon Refrigrators");
                Mprocess mrf = new Refrigrator();
                Wiring mm = new Wiring();
                mm.setWiringType("Hidden");
                System.out.println(mm.getWiringType());
                mrf.door();
                mrf.colour();
                mrf.size();
                mrf.temperature();

        }

}
```




```
Welcome to Moon Refrigrators
Hidden
Available Refrigrators with perticular Door
1.Single Door
2.Double Door
Enter your Door Choice
1
Available Colours
1.White
2.Red
Enter your Colour Choice
1
Available Capacitys for Refrigrator
1.500Liters
2.250Liters
Enter your Capacity Choice
1
Temperature
1.High
2.Medium
 3.Low
Enter your Temperature Choice
2
You can change the temperature by adjusting temperature button
```