

The screenshot displays an IDE with the following components:

- EXPLORER:** A list of Java files including `EnergySourceTester.java`, `EnergySource.java`, `FloatingSolarFarm.java`, `HydroGenerator.java`, `HydroPumpStorageUnit.java`, and `OffshoreWindTurbine.java`.
- EDITOR:** The `EnergySourceTester.java` file is open, showing a `main` method that creates and tests various energy sources. The code includes comments for each source and uses `System.out.println` to output their generated energy in kWh.
- TERMINAL:** The output of the `EnergySourceTester` program is shown, displaying the generated energy for each source: Generic Source (100.0 kWh), Basic Solar (127.5 kWh), Home Solar (144.0 kWh), Parking Lot Canopy (470.0 kWh), Lake Solar (1020.0 kWh), Basic Wind (160.0 kWh), City VAWT (81.0 kWh), and Village Windmill (25.0 kWh).

```
public class EnergySourceTester {  
    public static void main(String[] args) {  
        // Superclass  
        EnergySource source = new EnergySource(name:"Generic Source", capacityKwh:100, location:"Unknown");  
        System.out.println(source.getName() + " generates: " + source.generateEnergy() + " kWh\n");  
        // Solar  
        SolarPanel solar = new SolarPanel(name:"Basic Solar", capacityKwh:150, location:"City A", efficiency:0.85);  
        System.out.println(solar.getName() + " generates: " + solar.generateEnergy() + " kWh\n");  
        RooftopSolarPanel rooftop = new RooftopSolarPanel(name:"Home Solar", capacityKwh:200, location:"City B", efficiency:0.8, roofTi...30, 0.1);  
        System.out.println(rooftop.getName() + " generates: " + rooftop.generateEnergy() + " kWh\n");  
        SolarCanopy canopy = new SolarCanopy(name:"Parking Lot Canopy", capacityKwh:500, location:"City C", efficiency:0.9, covera...200, 50);  
        System.out.println(canopy.getName() + " generates: " + canopy.generateEnergy() + " kWh\n");  
    }  
}
```

PS C:\Users\User\OneDrive\Documents\My files\Exer4\_BONOGAN> & 'C:\Program Files\Java\jdk-25\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Roaming\Code\User\workspaceStorage\47492b8d18fc9e50082ec93549c08455\redhat.java\jdt\_ws\Exer4\_BONOGAN\_7107212c\bin' 'EnergySourceTester'

Generic Source generates: 100.0 kWh

Basic Solar generates: 127.5 kWh

Home Solar generates: 144.0 kWh

Parking Lot Canopy generates: 470.0 kWh

Lake Solar generates: 1020.0 kWh

Basic Wind generates: 160.0 kWh

City VAWT generates: 81.0 kWh

Village Windmill generates: 25.0 kWh

