

```
public class SensorComponent {  
    public double readTemperature(String unit) {  
        if (unit.equals("C")) {  
            return Math.random() * 100;  
        } else if (unit.equals("K")) {  
            return (Math.random() * 100) + 273.15;  
        }  
        throw new IllegalArgumentException("Unsupported temperature unit");  
    }  
  
    public double readPressure(String unit) {  
        if (unit.equals("Bar")) {  
            return 1.013; // default bar value  
        } else if (unit.equals("Pascal")) {  
            return 101300;  
        }  
        throw new IllegalArgumentException("Unsupported pressure unit");  
    }  
  
    public boolean supports(String capability) {  
        // TEMP or PRESSURE  
        return capability.equals("TEMP") || capability.equals("PRESSURE");  
    }  
}
```