**Adapter:**

**Converts one interface into another, as the system expects.**

### **Problem Statement**

Implement a system that adapts different user input formats (JSON and XML) for task creation using the Adapter Pattern. The system should handle tasks with varying priorities and produce consistent output regardless of the input format.

### **Explanation of Code**

1. Common Interface: TaskCreator defines a method createTask() for creating tasks.
2. Base Class: Task is an abstract class with common attributes and an abstract method describeTask().
3. Concrete Task Classes: HighPriorityTask and LowPriorityTask extend Task to handle specific priority levels and implement describeTask().
4. JSON Adapter: JSONTaskAdapter converts JSON input to a Task object.
5. XML Adapter: XMLTaskAdapter converts XML input to a Task object.
6. Main Class: AdapterPatternExample demonstrates using both adapters to create and describe tasks from JSON and XML inputs.

### **3. Output**

