**Factory:**

**Create different types of task objects.**

### **Problem Statement**

We need to create a system to manage different types of tasks with varying priorities. The system should be able to generate tasks based on their priority (e.g., high or low) and display their details. Using the Factory Pattern, implement a solution to create and describe tasks without exposing the task creation logic to the user.

### **Explanation of Code**

1. Base Class (Task):
   * An abstract class representing a task with a name and priority.
   * It includes an abstract method describeTask() for subclasses to implement.
2. Concrete Task Classes (HighPriorityTask and LowPriorityTask):
   * HighPriorityTask and LowPriorityTask extend the Task class, specifying details for high and low priority tasks, respectively.
   * Each class implements the describeTask() method to print the task's name and priority.
3. Factory Class (TaskFactory):
   * Provides a static method createTask() to instantiate and return the appropriate task object based on the priority input.
4. Main Class (FactoryPatternExample):
   * Demonstrates the use of TaskFactory to create tasks with different priorities and displays their details using the describeTask() method.

* **3.Output**

