Name: Neyaz Reyaz Mansoori

Roll No: 242010032 %%writefile FactoryMethodDemo.java // Product interface interface Product { void operation(); } // Concrete Products class ConcreteProductA implements Product { public void operation() { System.out.println("ConcreteProductA operation"); } class ConcreteProductB implements Product { @Override public void operation() { System.out.println("ConcreteProductB operation"); } // Creator (Factory) abstract class abstract class Creator { // Factory Method abstract Product createProduct(); void someOperation() { Product product = createProduct(); product.operation(); } } // Concrete Creators class ConcreteCreatorA extends Creator { @Override Product createProduct() { return new ConcreteProductA(); } class ConcreteCreatorB extends Creator { Product createProduct() { return new ConcreteProductB(); } // Client code public class FactoryMethodDemo { public static void main(String[] args) { Creator creator = new ConcreteCreatorA(); creator.someOperation(); creator = new ConcreteCreatorB(); creator.someOperation(); } } → Writing FactoryMethodDemo.java %%bash javac FactoryMethodDemo.java java FactoryMethodDemo ConcreteProductA operation ConcreteProductB operation