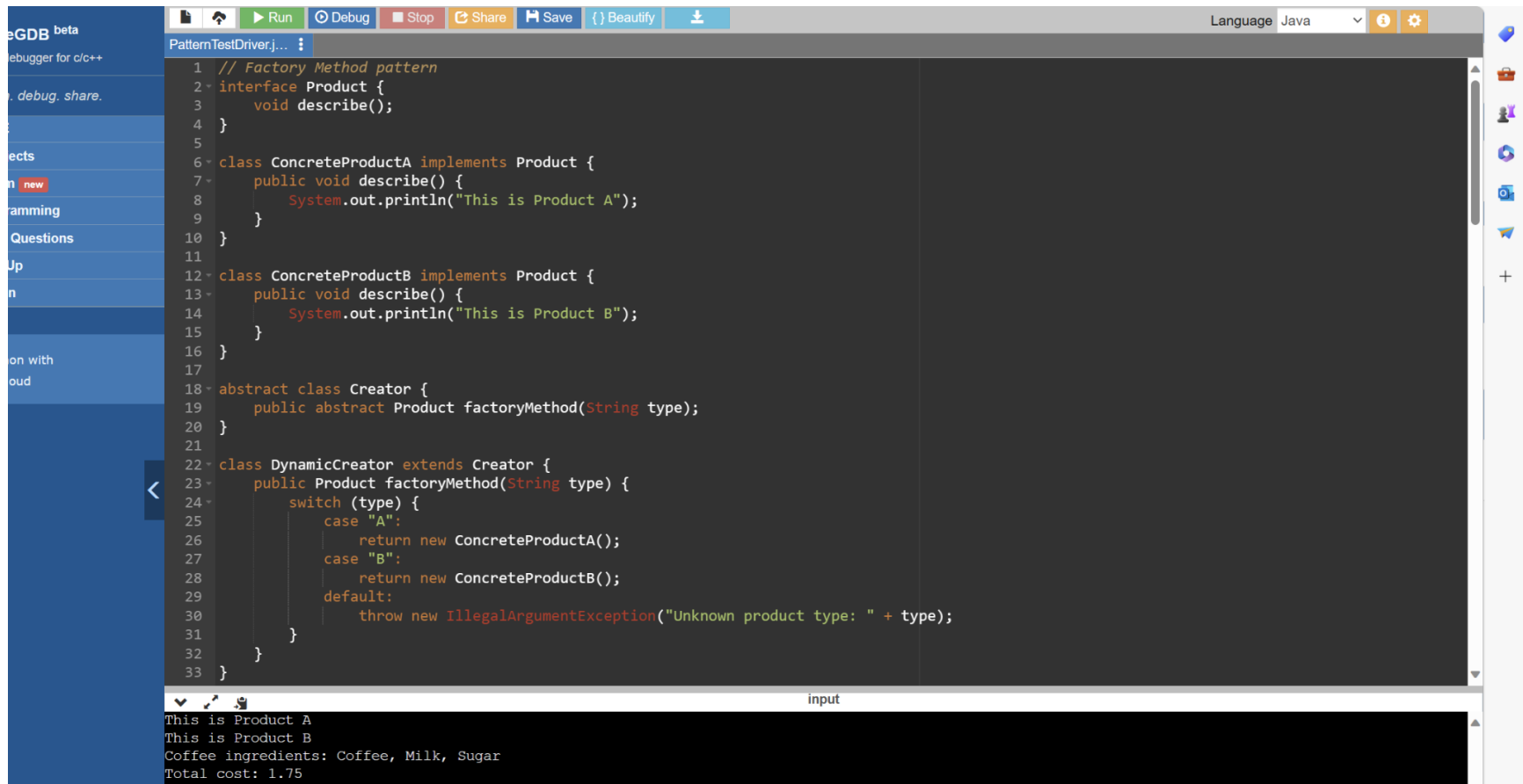


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Screenshot:



The screenshot displays an online Java IDE interface. The top toolbar includes buttons for Run, Debug, Stop, Share, Save, and Beautify. The language is set to Java. The main editor shows a Java file named 'PatternTestDriver.java' with the following code:

```
1 // Factory Method pattern
2 interface Product {
3     void describe();
4 }
5
6 class ConcreteProductA implements Product {
7     public void describe() {
8         System.out.println("This is Product A");
9     }
10 }
11
12 class ConcreteProductB implements Product {
13     public void describe() {
14         System.out.println("This is Product B");
15     }
16 }
17
18 abstract class Creator {
19     public abstract Product factoryMethod(String type);
20 }
21
22 class DynamicCreator extends Creator {
23     public Product factoryMethod(String type) {
24         switch (type) {
25             case "A":
26                 return new ConcreteProductA();
27             case "B":
28                 return new ConcreteProductB();
29             default:
30                 throw new IllegalArgumentException("Unknown product type: " + type);
31         }
32     }
33 }
```

The bottom console shows the output of the program:

```
This is Product A
This is Product B
Coffee ingredients: Coffee, Milk, Sugar
Total cost: 1.75
```

Compiler:

[Online Java Compiler - online editor \(onlinegdb.com\)](https://onlinegdb.com/)