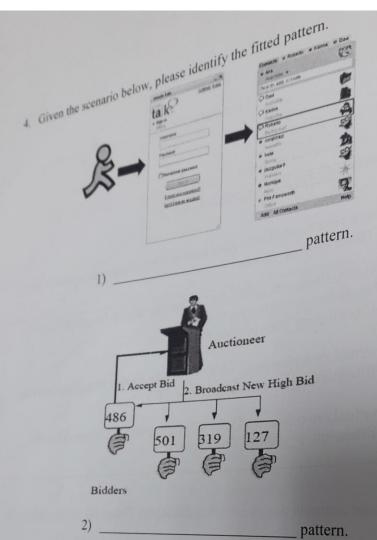
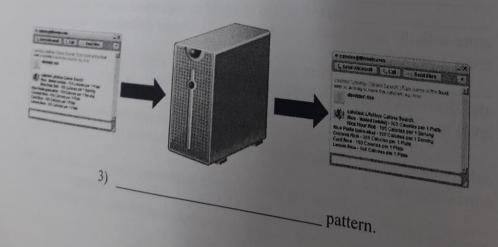
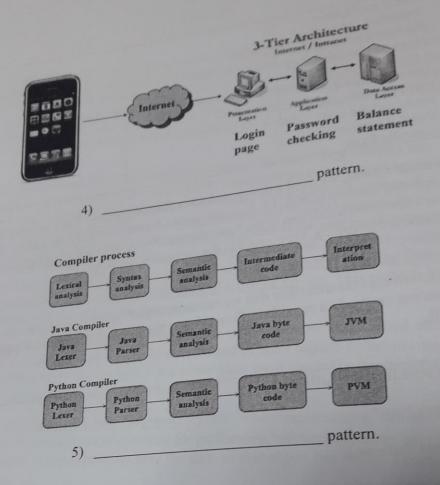
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pattern is used by Run pattern is used by base zone with the given locale, e.g. public static zone, Locale locale).	ed on the current time in the given time c Calendar getInstance(TimeZone
pattern is used extensiv	vely in Java IO, like BufferedReader
level reading and writing for improved perf	r and Writer objects to perform Buffer
nottern is used to	
collection object in sequential manner with	way to access the elements of a out any need to know its underlying
representation.	out any need to know its underlying
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pattern is used to rovide an abstract class to be subclassed to

create an HTTP servlet suitable for a Web site. A subclass of HttpServlet must override at least one method, e.g. public abstract class HttpServlet extends







5. Please compare Decorator and Proxy patterns based on the following questions and draw their structure diagrams.

	Decorator	Proxy
1) What is the type of the pattern?		
2) Define a <u>common or</u> <u>different</u> interface for the decorator / proxy and the target object?		
3) The functionality added by a decorator / proxy to a real object is permanent — it cannot be removed once added.		

6. To make a pizza, we need a dough and other chosen topping. The cost of dough, cheese and ketchun is 100, 10.5 cheese and ketchup is 100, 10, 5, respectively. A customer wants to add double layer cheese and a ketchup to the basic dough, Please write a line of code to describe the wrapping. How much is the pizza with the topping?

7. The following case describes that we create an object of any one of sub-classes depending on the data provided. Please detect the applied pattern and write its result.

```
package oose.finalexam2018;
import java.lang.*;
public class Patterns {
   public static void main(String[] args) {
          String obj = new String("a"); rement
          System.out.println("Now you are taking the " + obj.valueOf("OOSI
final exam.\('));
          Integer wish = 100:
         System.out.println("Integer Value = " + obj.value Of(wish));
```



8. Imagine that you're working on a new text-editor app. Your current task is to create a toolbar with a bunch of buttons for various operations of the editor. While all of these buttons look similar, they're all supposed to do different things. You are going to apply Command pattern to solve the problem. Command objects are going to apply Command pattern to solve the problem. The GUI object serve as links between various GUI and business logic objects. The GUI object just triggers the command, which handles all the details.

Commands which result in changing the state of the editor (e.g., cutting and pasting) make a backup copy of the editor's state before executing an operation associated with the command. After a command is executed, it's supposed to place into the command history (a stack of command objects) along with the place into the editor's state at that point. Later, if the user needs to revert an backup copy of the editor's state at that point. Later, if the user needs to revert an operation, the app can take the most recent command from the history, read the associated backup of the editor's state, and restore it. While it isn't that easy to save an application's state because some of it can be private. This problem can be mitigated with the Memento pattern.

The Memento pattern delegates creating the state snapshots to the actual owner of that state, the originator object. Hence, instead of other objects trying to copy the editor's state from the "outside," the editor class itself can make the snapshot since it has full access to its own state.

Please use Command and Memento together when implementing "undo". In this case, commands are responsible for performing various operations over a target object, while mementos save the state of that object just before a command gets executed.