

Projects x Services Files Start Page x CaffeineBeverage.java x Coffee.java x Tea.java x BeverageTest.java x AmericanoCoffee.java x

Source History

```
1 package ec.edu.espe.caffeinebeverage.model;
2
3
4 /**
5  *
6  * @author Camila Teca, DEEE-ESPE
7  */
8
9 public abstract class CaffeineBeverage {
10     public void prepareRecipe() {
11         boilWater();
12         brew();
13         pourInCup();
14         if(wantsCondiments()) {
15             addCondiments();
16         }
17     }
18
19     public void boilWater() {
20         System.out.println("1. Boiling water");
21     }
22
23     public abstract void brew();
24
25     public abstract void addCondiments();
26
27     public void pourInCup() {
28         System.out.println("3. Pouring into cup");
29     }
30 }
```

Output - CaffeineBeverage (run) x

```
run:
->Template Method Pattern - Camila Teca <-
WELCOME TO BEVERAGE TEST
```

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CaffeineBeverage - Apache NetBeans IDE 12.5

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Projects Services Files

Start Page CaffeineBeverage.java Coffee.java Tea.java BeverageTest.java AmericanoCoffee.java

Source History

1 package ec.edu.espe.caffeinebeverage.model;
2
3
4 import java.util.Scanner;
5
6 /**
7 *
8 * @author Camila Teca, DEEE-ESPE
9 */
10 public class Coffee extends CaffeineBeverage {
11 public void brew() {
12 System.out.println("2. Dripping coffee through filter");
13 }
14
15 public void addCondiments() {
16 System.out.println("4. Adding sugar and milk");
17 }
18
19 public boolean wantsCondiments() {
20 String answer = getUserInput();
21 if (answer.startsWith("yes")) {
22 return true;
23 }
24 else {
25 return false;
26 }
27 }
28 }
29

Output - CaffeineBeverage (run)

run:
->Template Method Pattern - Camila Teca <-
>> WELCOME TO BEVERAGE TEST

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Projects x Services Files — Start Page x CaffeineBeverage.java x Coffee.java x Tea.java x BeverageTest.java x AmericanoCoffee.java x

Source History

```
4 import java.util.Scanner;
5
6 /**
7  *
8  * @author Camila Teca, DEEE-ESPE
9  */
10 public class Tea extends CaffeineBeverage {
11
12     public void brew() {
13         System.out.println("2. Steep the tea");
14     }
15
16     public void addCondiments() {
17         System.out.println("4. Adding lemon");
18     }
19
20     public boolean wantsCondiments() {
21         String answer = getUserInput();
22         if (answer.startsWith("yes")) {
23             return true;
24         }
25         else{
26             return false;
27         }
28     }
29 }
```

Output - CaffeineBeverage (run) x

```
run:
->Template Method Pattern - Camila Teca <-
>>
WELCOME TO BEVERAGE TEST
```

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Projects X Services Files — StartPage X CaffeineBeverage.java X Coffee.java X Tea.java X BeverageTest.java XAmericanoCoffee.java X

Source History

```
4 import java.util.Scanner;
5
6 /**
7  *
8  * @author Camila Teca, DEEE-ESPE
9  */
10 public class AmericanoCoffee extends CaffeineBeverage{
11     public void brew() {
12         System.out.println("2. Dripping coffee through filter");
13     }
14
15     public void addCondiments() {
16         System.out.println("4. Adding sugar and water");
17     }
18
19     public boolean wantsCondiments() {
20         String answer = getUserInput();
21         if (answer.startsWith("yes")) {
22             return true;
23         }
24         else{
25             return false;
26         }
27     }
28
29     private String getUserInput() {
```

Output - CaffeineBeverage (run) X

```
run:
->Template Method Pattern - Camila Teca <-
>>
WELCOME TO BEVERAGE TEST
```

37:1 | INS

Projects x Services Files — Start Page x CaffeineBeverage.java x Coffee.java x Tea.java x BeverageTest.java x AmericanoCoffee.java x

Source History

```
10  * @author Camila Teca, DEEE-ESPE
11  */
12  public class BeverageTest {
13      public static void main(String[] args) {
14          Tea tea = new Tea();
15          Coffee coffee = new Coffee();
16          AmericanoCoffee americano= new AmericanoCoffee();
17
18          System.out.println("->Template Method Pattern - Camila Teca <-");
19          System.out.println("\nWELCOME TO BEVERAGE TEST");
20
21          System.out.println("\n--> Making Tea <---");
22          tea.prepareRecipe();
23
24          System.out.println("\n--> Making Coffee <---");
25          coffee.prepareRecipe();
26
27          System.out.println("\n--> Making Americano Coffee <---");
28          americano.prepareRecipe();
29
30          System.out.println("\nThank you for your visit, Come back soon");
31      }
32  }
33
34  }
```

Output - CaffeineBeverage (run) x

```
run:
->Template Method Pattern - Camila Teca <-
WELCOME TO BEVERAGE TEST
```

BeverageTest.java saved. 35:1 INS

Projects X Services Files Start Page X CaffeineBeverage.java X Coffee.java X Tea.java X BeverageTest.java X AmericanoCoffee.java X

Source History

```
10  * @author Camila Teca, DEEE-ESPE
11  */
12  public class BeverageTest {
13      public static void main(String[] args) {
```

Output - CaffeineBeverage (run) X

```
-->Template Method Pattern - Camila Teca <--

WELCOME TO BEVERAGE TEST

--> Making Tea <---
1. Boiling water
2. Steep the tea
3. Pouring into cup
Would you like lemon with your tea (yes/no)?
yes
4. Adding lemon

--> Making Coffee <---
1. Boiling water
2. Dripping coffee through filter
3. Pouring into cup
Would you like lemon with your coffee (yes/no)?
yes
4. Adding sugar and milk

--> Making Americano Coffee <---
1. Boiling water
2. Dripping coffee through filter
3. Pouring into cup
Would you like lemon with your coffee (yes/no)?
no

Thank you for your visit, Come back soon
BUILD SUCCESSFUL (total time: 11 seconds)
```

35:1 | INS