

MASTER OF SCIENCE IN INFORMATION TECHNOLOGY SPECIALIZING IN
ENTERPRISE APPLICATIONS DEVELOPMENT
SLIIT METROPOLITAN CAMPUS
BOC MERCHANT TOWER, No #28, ST MICHAEL'S ROAD,
COLOMBO 03, SRI LANKA

Enterprise Software Analysis & Design

SE5060: EXERCISE 7

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August 31, 2020

ANSWER

Github - <https://github.com/pradeep-sanjaya/ead-esad-exercise7>

Classes

TestTemplateMethod.java

```
package com.sliit;

public class TestTemplateMethod {

    public static void main(String[] args) {

        System.out.println("====_Tea_====\n");
        Beverages tea = new Tea();
        tea.prepareRecepie();

        System.out.println("====_Coffee_====\n");
        Beverages coffee = new Coffee();
        coffee.prepareRecepie();
    }
}
```

Beverages.java

```
package com.sliit;

public abstract class Beverages {

    public abstract void addCondiments();
    public abstract void brew();

    public final void prepareRecepie() {
        boilWater();
        brew();
        addCondiments();
        pourInCup();
    }

    void boilWater() {
        System.out.println("Boiling_water.");
    }

    void pourInCup() {
        System.out.println("Pour_into_cup.");
    }
}
```

Tea.java

```
package com.sliit;

public class Tea extends Beverages {
    @Override
    public void addCondiments() {
        System.out.println("Steeping_the_Tea.");
    }

    @Override
    public void brew() {
        System.out.println("Adding_Lemon.");
    }
}
```

Coffee.java

```
package com.sliit;

public class Coffee extends Beverages {
    @Override
    public void addCondiments() {
        System.out.println("Add_sugar_and_milk.");
    }

    @Override
    public void brew() {
        System.out.println("Stripping_coffee_through_filter.");
    }
}
```

Screenshots

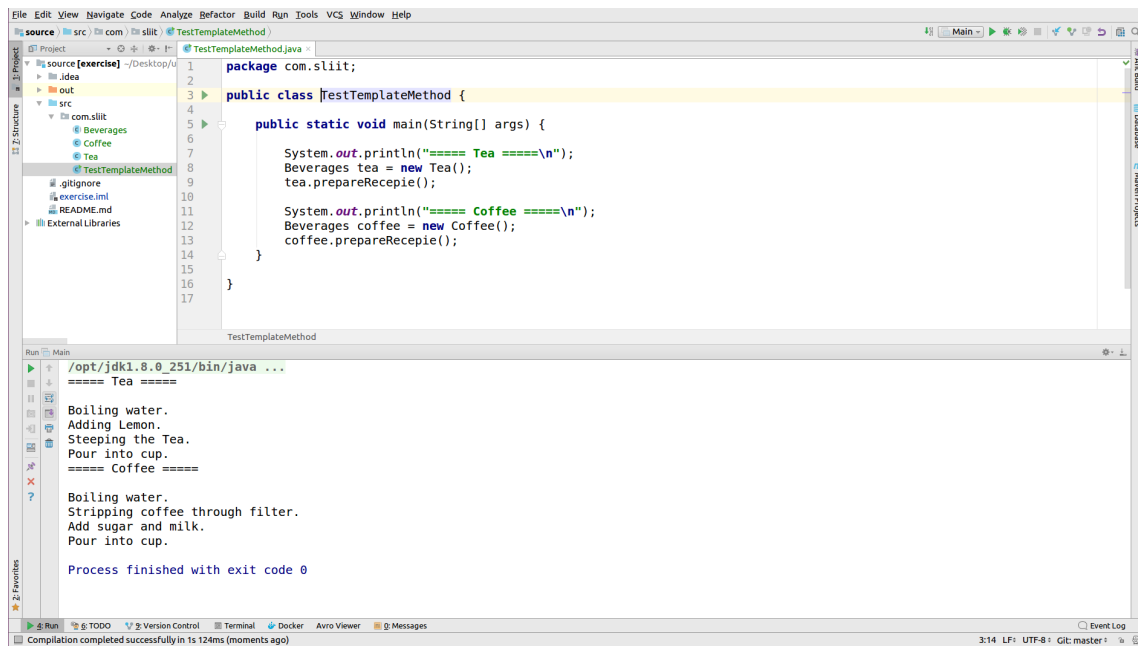


Figure 0.1: Solution

REFERENCES

- [1] Samarathunge, U. (2020) Lecture - 03 GOF Design Patterns Part I
- [2] Samarathunge, U. (2020) Lecture - 03 GOF Design Patterns Part II-v2
- [3] Samarathunge, U. (2020) Lecture - 03 GOF Design Patterns Part II With Answers