**JOBSHEET 8**

**Stack**



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**NIM**

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**Class**

1I

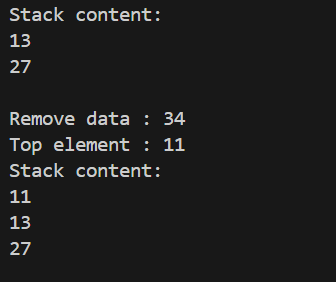
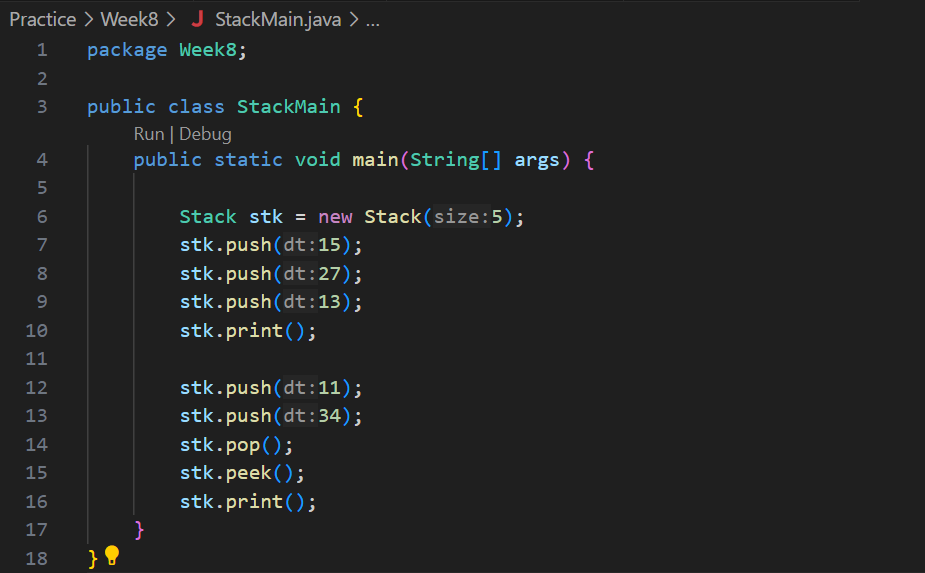
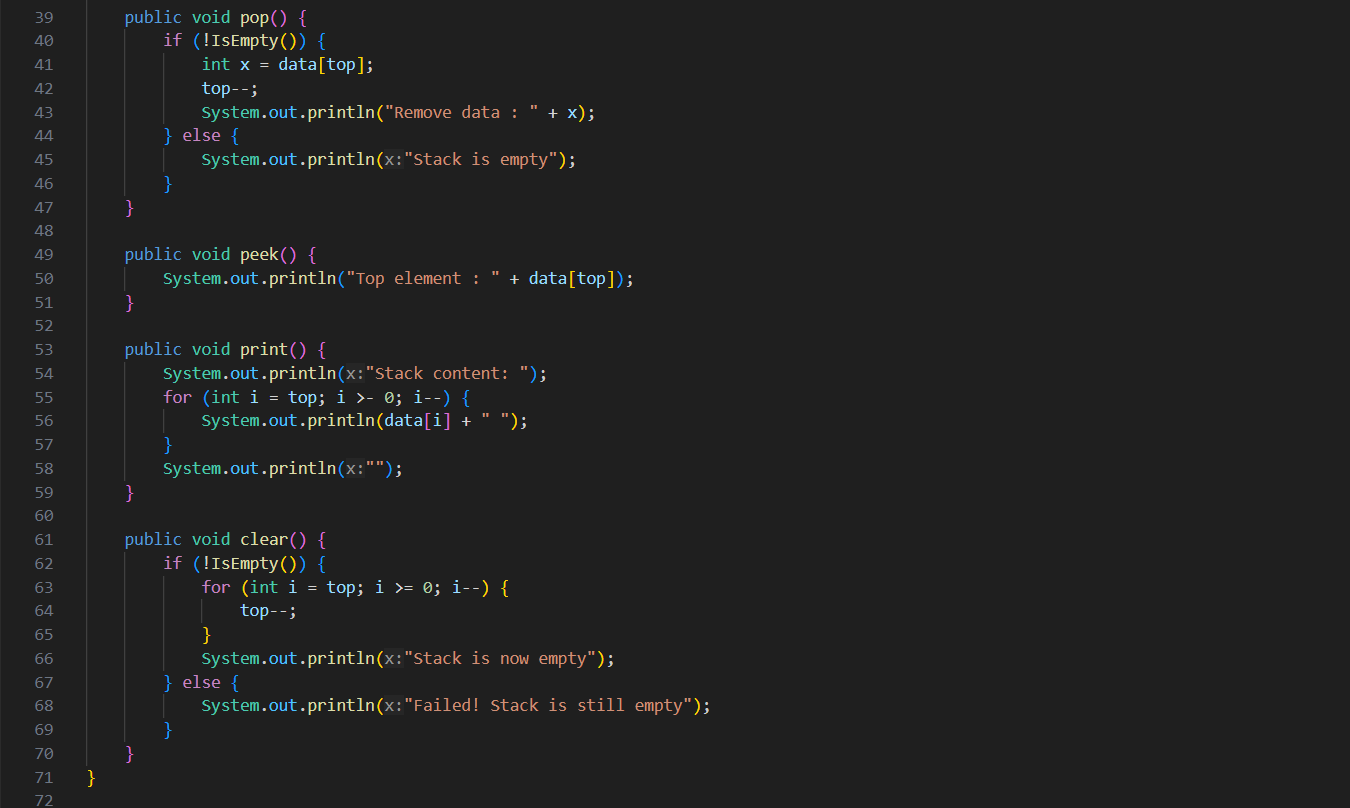
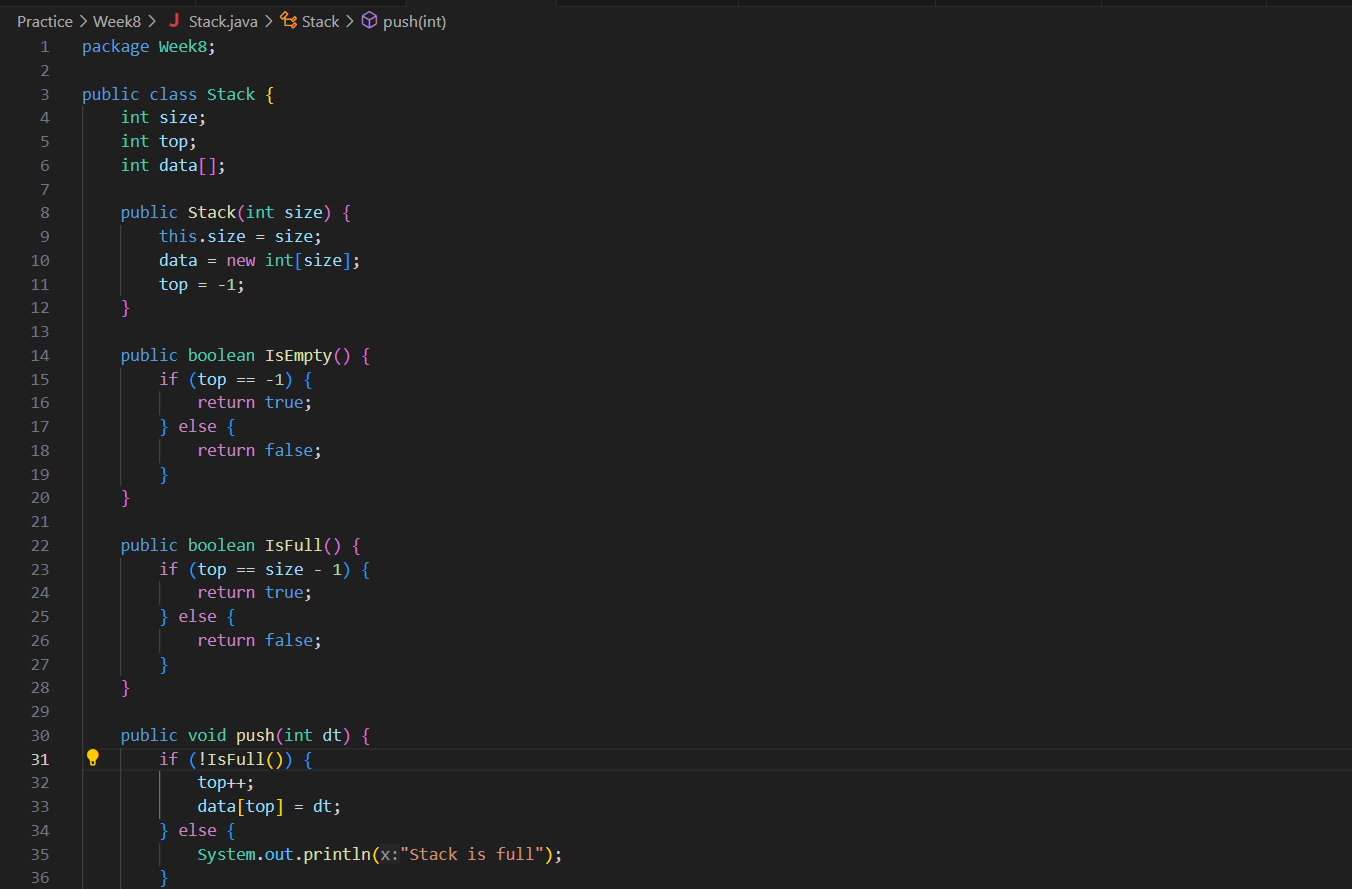
**Major**

Information Technology

**Study Program**

D4 Informatics Engineering

**Practicum 1**

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**Question**

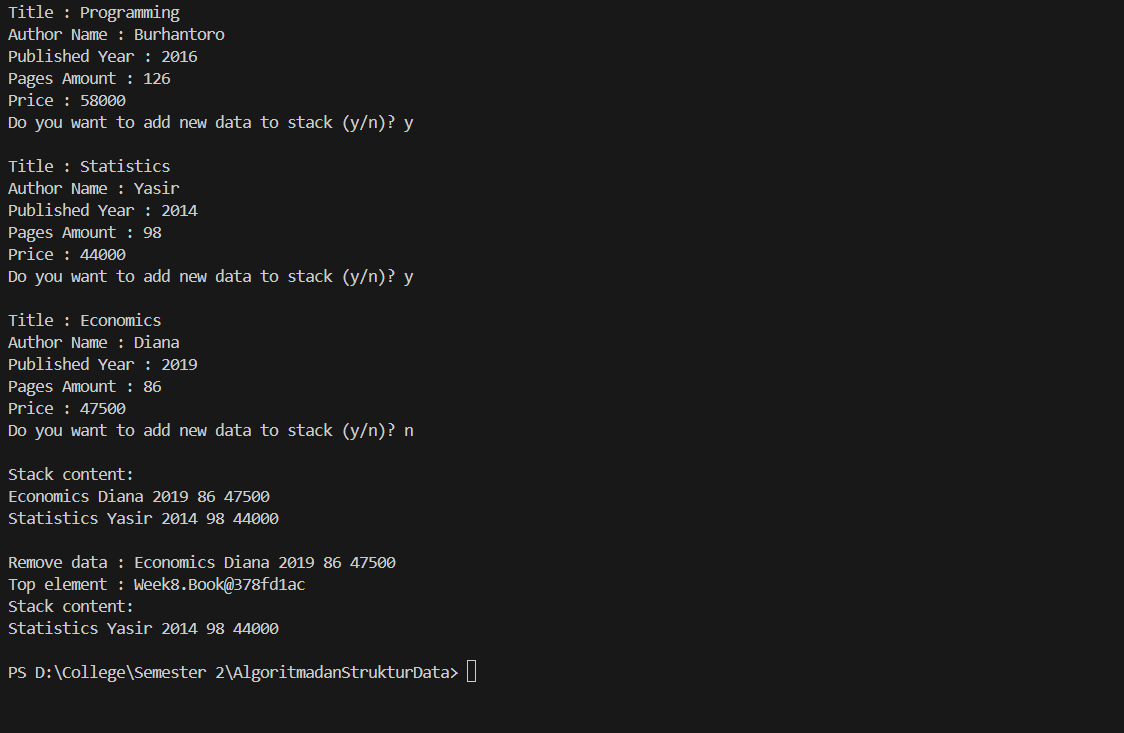
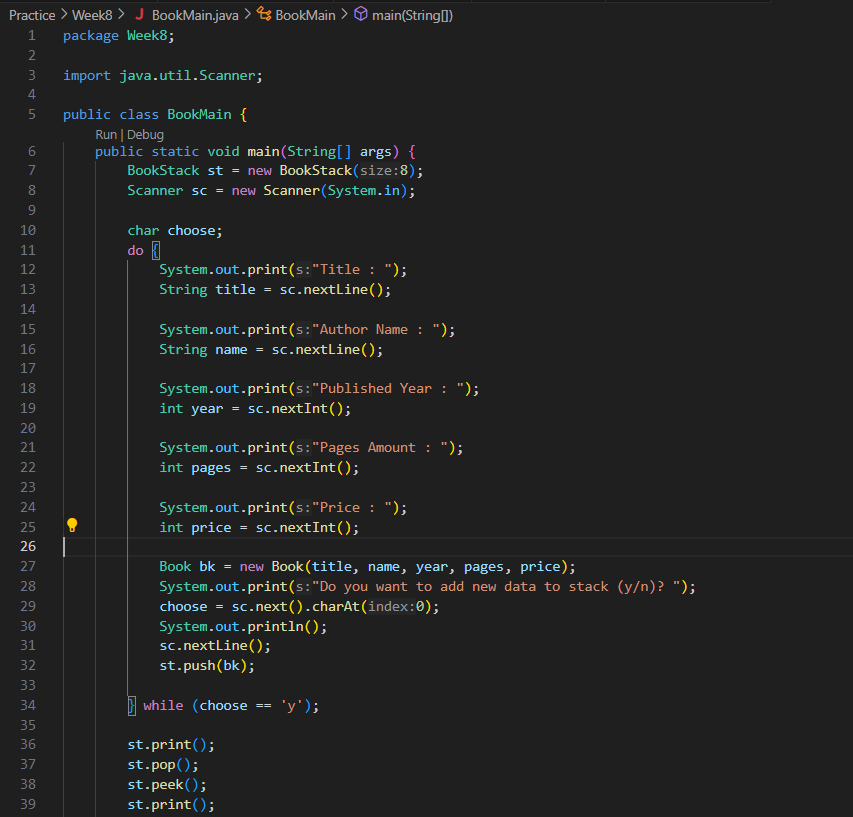
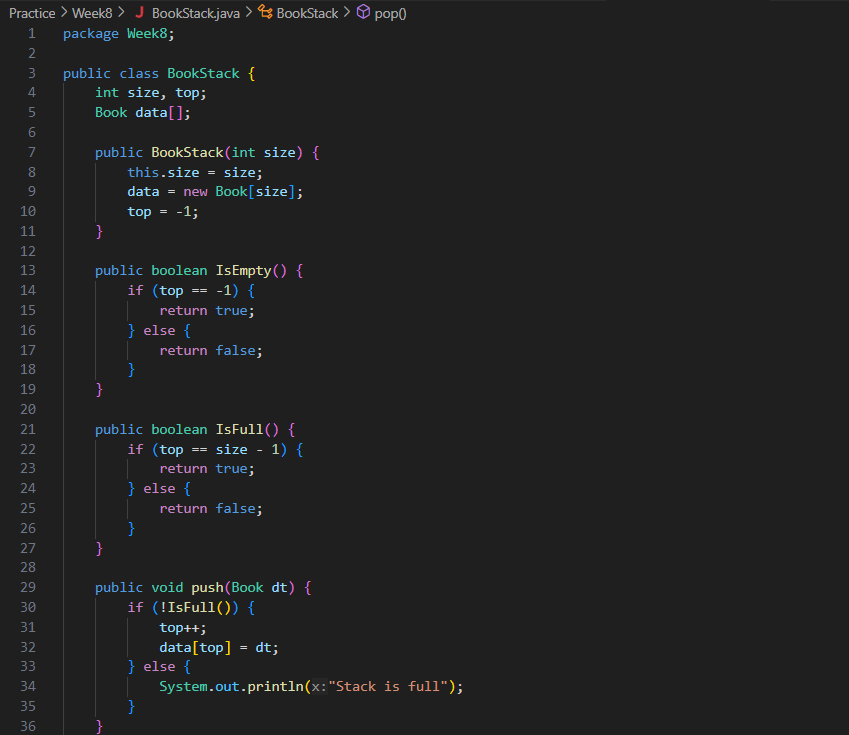
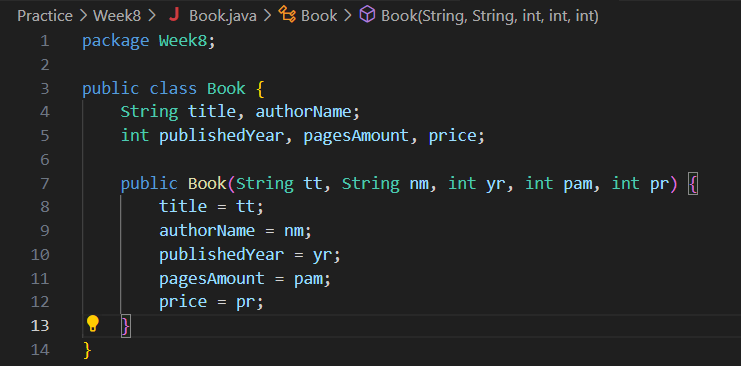
1. In class **StackMain**, what is the usage of number 5 in this following code?



1. Add 2 more data in the stack with 18 and 40. Display the result!
2. In previous number, the data inserted in to the stack is only 18 and 40 is not inserted.

Why is that?

**Practicum 2**

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**Question**

1. In class StackMain, when calling **push** method, the argument is **bk.** What information is included in the **bk** variable?
2. Which of the program that its usage is to define the capacity of the stack ?
3. What is the function of do-while that is exist in **StackMain** class?
4. Modify the program in **StackMain,** so that the user may choose which operation (push, pop, peek, print) to do in stack from program menu!

**Practicum 3**

**Question**

1. Please explain the flow of method in **Postfix** class
2. What is the function of this program code?
3. Execute the program again, how’s the result if we insert **3\*5^(8-6)%3** for the expression?
4. In 2nd number, why the braces are not displayed in conversion result? Please explain!

**Assignment**

1. Create a program with Stack implementation to insert a sentence and display the reversed version of the sentence as a result!
2. Every Sunday, Dewi shops to a supermarket that is in her residential area. Everytime she finishes, she keeps the receipt of what she has bought in a wardrobe. After 2 months, She had 8 receipts. She plans to trade her 5 receipts in exchange for a voucher. Create a program using stack implementation to store Dewi’s receipt. As well as the retrieving the receipts. The information that are included in a receipt are as follows:

* Transaction ID
* Date
* Quantity of items
* Total price