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| **Practicum Case** |  |
| ISYS6197  Business Application Development |
| **Computer Science** | **O221-ISYS6197-DU01-01** |
| ***Valid on*** *Odd Semester Year 2021/2022* | **Revision 00** |

## Learning Outcomes

* Explain Object Oriented concept

## Topic

* Session 01 - Review to Java Programming

## Subtopics

* Arithmetic Operator
* Data Type (Primitive & Wrapper)
* Selection and Repetition
* Input and Output
* Logical Operator
* Method

## Soal

*Case*

**Shape Printer**

You are asked to build an application for learning called **Shape Printer** to print shape. You are assigned to make a program with the description below:

* Ask user to input **name**. Validate length of **name** must be between **5 – 25 characters**.



* After that, show the user’s name and menu. The program consists of 4 menus:
  1. **Full Rectangle Shape**
  2. **Empty Rectangle Shape**
  3. **Right Triangle Shape**
  4. **Exit**

**Background pattern

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* Ask user to input menu choice between **1** and **4**.
* If user chooses **Full Rectangle Shape (Menu ‘1’)**:
  + Ask user to input **full rectangle size**. Validate **full rectangle** **size** must be **numeric** and at **least** 1.
  + The program will print **full rectangle shape** with inputted size and show the shape to user.

**Text

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* If user chooses **Empty Rectangle Shape (Menu ‘2’)**:
  + Ask user to input **empty rectangle size**. Validate **empty rectangle size** must be **numeric** and at **least** **2.**
  + The program will print **empty rectangle shape** with inputted size and show the shape to user.

A picture containing graphical user interface

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* If user chooses **Right Triangle Shape (Menu ‘3’)**:
  + Ask user to input **right triangle height**. Validate **right triangle height** must be **numeric** and at **least** 3.
  + The program will print **right triangle shape** with inputted size and show the shape to user.

Text

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* If user choose **Exit (Menu 4)**, the program ends.

**Please ask your teaching assistant if there is if there are any related questions.**