### Case Code: CS-COMP6364-Var03

## **Learning Outcomes**

- Describe the additional features of OOP
- Construct a program using additional features of OOP

# **Topic**

• Session 05 – Wrapper Class and Method

## **Sub Topics**

- Exception Handling
- Math Method
- Wrapper Class

#### Soal

Case

Zendy is a student that just got a subject in his college about OOP. He wants to create a program about Binary numbers. For your information, binary numbers let you represent any amount you want using just two digits: 0 and 1. Now, help him to make a program based on these rules:

- The program consists of 3 menus:
  - 1. Binary Number
  - 2. Binary Number with step
  - 3. Exit
- If user chooses "Binary Number", then the program will:
  - Ask user to **input** a number. Validate the **number** must be between 1 and 100.
  - o Then show the binary number.
- If user chooses "Binary Number with step", then the program will:
  - O Ask user to **input** a number. Validate the **number** must be between 1 and 100.
  - o Then show the step of calculating the binary number.
- If user chooses "Exit", then the program will end.
- Do not forget to use Exception Handling to handle any possible errors

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#### Printscreen of main menu

```
Binary Number Calculation

1. Binary Number

2. Binary Number with step

3. Exit

Choose:
```

### Print screen of menu 1 "Binary Number"

```
Input the number [1-100]: 123
Input the number [1-100]: 0
Input the number [1-100]: 7

The Result of Binary Number 7: 111
```

# Print screen of menu 2 "Binary Number with step"

```
Input the number [1-100]: 123
Input the number [1-100]: 0
Input the number [1-100]: 7

The Result of Binary Number
Step 1: 7/2, Remainder = 1, Quotient = 3
Step 2: 3/2, Remainder = 1, Quotient = 1
Step 3: 1/2, Remainder = 1, Quotient = 0

7 in decimal = 111 in binary
```

### Print screen of menu 3 "Exit"

```
Thank you and have a nice day.. ^^
```

If anyone does not understand, ask your assistant!

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