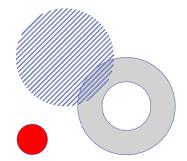


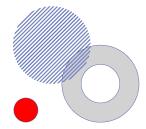
CSS232 Object-Oriented Programming

Lecturer: Dr. Thittaporn Ganokratanaa





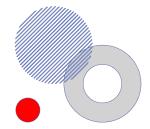




Lab

- ➤ Lab Unit 1
- ➤ Lab Unit 2
- ➤ Lab Unit 3





1. Write a program to display any message

Example: display a sentence: "Welcome to OOP Programming"

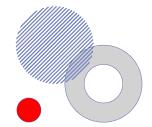
2. Write a Java program to display default value of all primitive data types of Java.

Note: the data types that need to show their default value are: **short, int, long, float, double, char String, and Boolean**.

3. Write a program check two strings are equal or not.

Example: str1 = "OOP"; str2 = "Object-Oriented Programming"





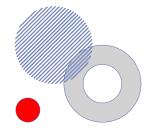
- 1. Write a program to give the examples of operators.
 - i. Increment and decrement operators.

ii. Arithmetic operator.

iii. Relational Operator.

iv. Conditional Operator.





- 2. Write a program to give the example of control statements.
 - If statements.

Guide: Testing on two integer and print the greatest and the lesser.

Switch Statements.

Guide: Initial a char, then apply switch with three case and display the output.

iii. For loop.

Guide: Display total sum value of a = 10

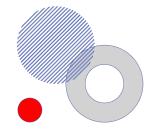
iv. While Statements

Guide: Apply "while" loop in the condition i<=5, and display the i+1 of every iterations

v. Do statements

Quide: Apply "do" with a display sentence, and then break the loop if i>5





Lab Unit 2 (Cont.)

- 3. Write a program to calculate the following
 - i. Find the length of array

Example:
$$a1 = int[10]$$
; $a2 = {3,5,7, 1, 8, 99, 44, -10}$; $a3 = {4,3,2,1}$;

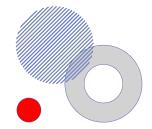
ii. Demonstrate a two-dimensional array

Guide: create 3x3 matrix that has element's value from 0 to 8

4. Write a program to arrange the numbers in ascending order.

Example: arr = {234,6,846,85,96,198,545,12,60,34,4,87,7,1};





Lab Unit 2 (Cont.)

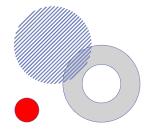
- 5. Write a program for calculating Matrix Operations
 - i. Addition

$$a = \{ \{4,7,9,8,3\}, \{2,4,7,8,1\}, \{1,1,8,1,2\}, \{0,0,1,0,4\} \};$$

$$b = \{ \{1,2,8,4,3\}, \{4,1,8,3,1\}, \{2,1,0,0,5\}, \{1,2,1,1,7\} \};$$

ii. Multiplication





1. Write a program to reads Celsius in double value from the console and converts it to

Fahrenheit. (Note: Fahrenheit = (9.0/5.0)*Celsius + 32)





Q&A

