**Báo cáo thực hành Lập trình hướng đối tượng Lab 1**

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**I- The Very First Java Programs**

2.2.1- Write, compile the first java application

a. Code:

A screen shot of a computer program

Description automatically generated

b. Thực thi:

2.2.2- Write, compile the first dialog Java program

a. Code:

A screen shot of a computer screen

Description automatically generated

b. Thực thi:

2.2.3- Write, compile the first input dialog Java application

a. Code:

A screen shot of a computer program

Description automatically generated

b. Thực thi:

2.2.4- Write, compile, and run the following example:

a. Code:

A screenshot of a computer screen

Description automatically generated

b. Thực thi:

2.2.5- Write a program to calculate sum, difference, product, and quotient of 2 double numbers which are entered by users.

a. Code:

A screenshot of a computer program

Description automatically generated

b. Thực thi:

2.2.6- Write a program to solve:

2.2.6.1- The first-degree equation (linear equation) with one variable

a. Code:

A screen shot of a computer code

Description automatically generated

b. Thực thi:

2.2.6.2- The system of first-degree equations (linear system) with two variables

a. Code:

A screen shot of a computer screen

Description automatically generated

b. Thực thi:

2.2.6.3- The second-degree equation with one variable

a. Code:

A screen shot of a computer program

Description automatically generated

b. Thực thi:

**II- Exercies**

6.1- Write, compile and run the ChoosingOption program

a. Code:

A screen shot of a computer program

Description automatically generated

b. Thực thi:

6.2- Write a program for input/output from keyboard

a. Code:

A screen shot of a computer screen

Description automatically generated

b. Thực thi:

6.3- Write a program to display a triangle with a height of n stars (\*), n is entered by users.

a. Code:

A screen shot of a computer program

Description automatically generated

b. Thực thi:

6.4- Write a program to display the number of days of a month, which is entered by users (both month and year). If it is an invalid month/year, ask the user to enter again.

- The user can either enter a month in its full name, abbreviation, in 3 letters, or in number. To illustrate, the valid inputs of January are January, Jan., Jan, and 1.

- The user must enter a year in a non-negative number and enter all the digits. For instance, the valid inputs of year 1999 is only 1999, but not 99, “one thousand nine hundred ninety-nine”, or anything else.

- A year is either a common year of 365 days or a leap year of 366 days. Every year that is divisible by 4 is a leap year, except for years that are divisible by 100, but not by 400. For instance, year 1800 is not a leap year, yet year 2000 is a leap year. In a year, there are twelve months, which are listed in order as follows.

a. Code:

A screen shot of a computer screen

Description automatically generated

b. Thực thi:

6.5- Write a Java program to sort a numeric array, and calculate the sum and average value of array elements.

a. Code:

A screen shot of a computer code

Description automatically generated

b. Thực thi:

6.6- Write a Java program to add two matrices of the same size.

a. Code:

A screen shot of a computer code

Description automatically generated

b. Thực thi: