

EXPERIMENT 2

1. Selective Structure

Experiments:

- 1) Write a Java program to read two integer numbers and an operator (+, -, *, /) to calculate summation, subtraction, multiplication and division using if statement.
- 2) Write a Java program that displays water bills. Your program should prompt the user to enter an integer account number, a character use code, and a real number representing the gallons of water used. The output from your program should include the account number, message indicating the type of usage, and the amount of money due from the user.

The water rates vary depending on the type of usage. A code of H means home use, a code of C means commercial use, and a code of I means industrial use. Any other code value should be treated as an error. Water rates are computed as follows:

Code H: \$5.00 plus \$0.005 per gallon

Code C: \$1000.00 for the first 4 million gallons used plus
 \$0.025 for each additional gallon used

Code I: \$1000.00 if usage does not exceed 4 million gallons
 \$2000.00 if usage is between 4 million and 10 million gallons
 \$3000.00 if 10 million gallons or more