BATAAN PENINSULA STATE UNIVERSITY – MAIN CAMPUS
COLLEGE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
1ST SEMESTER, A.Y. 2023-2024
CTCC0213 – COMPUTER PROGRAMMING I

COURSE MAJOR OUTPUT

Basic Calculator Application in Java Programming

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I.   Background and Description

The Java-based Basic Calculator Application operates in a console environment, offering a straightforward yet engaging interface for executing fundamental arithmetic operations. Users input the initial number, are then prompted to select an operation (Addition, Subtraction, Multiplication, or Division), input the second number, and finalize the calculation by pressing the equal button to reveal the result.

This Java calculator project not only serves as a practical application for applying programming concepts but also holds the potential for expansion, allowing the incorporation of additional features tailored to user requirements or educational objectives.

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Some capabilities are proficient user input handling, and potential integration of advanced functions such as square root, exponentiation etc.

The limitations may include a lack of support for complex mathematical functions beyond basic arithmetic operations, limited user interface features and potential difficulty handling large numbers or precision issues, Additionally, it might not provide support for more advanced mathematical operations or complex expressions.

Figure 1 The program begins by inputting the first number. . . Next through a decision block the user prompt to choose an operator. Then the user need to input the second number . . . Lastly, the user need to press the equal button to calculate the value and the program finishes as it display the result .

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I.   Program Logic Flow

FLOWCHART OF A BASIC CALCULATOR