**CHATBOT**

**LOGICAL VIEW**

* This is a basic calculator chat bot program that performs simple mathematical operations based on user input.
* The program uses regular expressions to identify user input and responds accordingly.
* The math\_operation function takes in an operator (add, subtract, multiply, divide) and two operands (a and b) and returns the result of the mathematical operation.
* The chat\_bot function handles the user input and uses the math\_operation function to perform the operations.
* The program starts with a greeting message and enters an infinite loop to receive input from the user.
* If the user inputs exit, the program exits.
* If the user inputs a mathematical operation (add, subtract, multiply, divide), the program prompts the user to input two operands and uses the math\_operation function to perform the operation and display the result.
* If the user inputs list or show, the program displays the available operations.
* If the user inputs a small talk message (hi, hello, hey, thank you, thanks), the program responds accordingly. If the user inputs any other message, the program prompts the user to try again.
* The program uses error handling to prevent division by zero errors. If the user inputs 0 as both operands for division, the program displays an error message indicating that 0 is an invalid input.