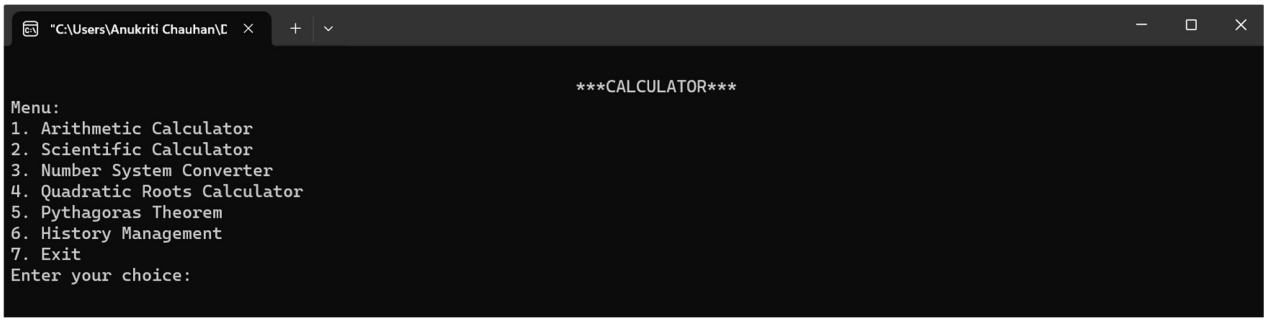
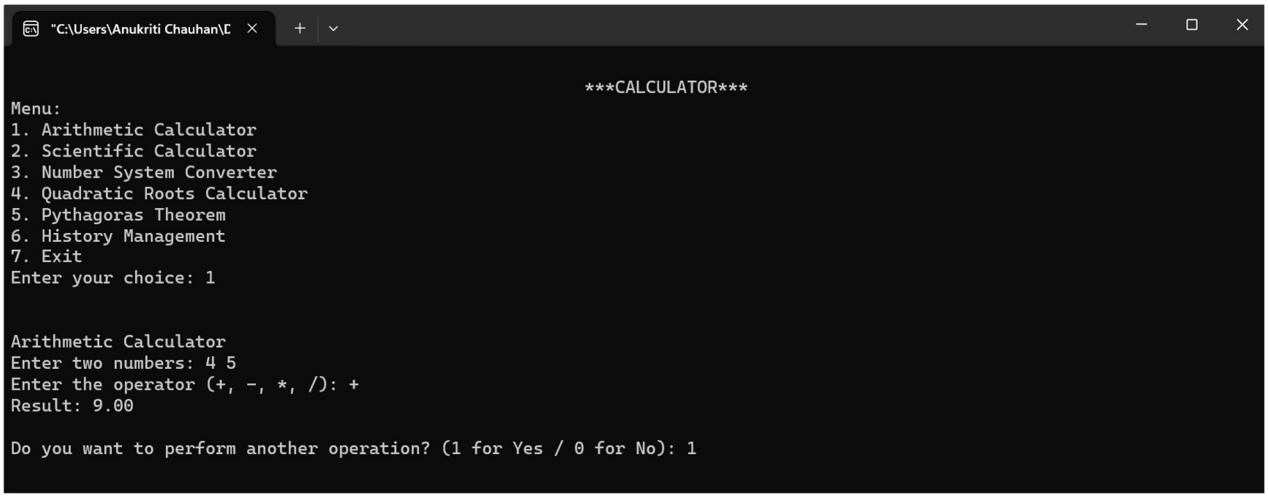
IMPLEMENTATION DETAILS



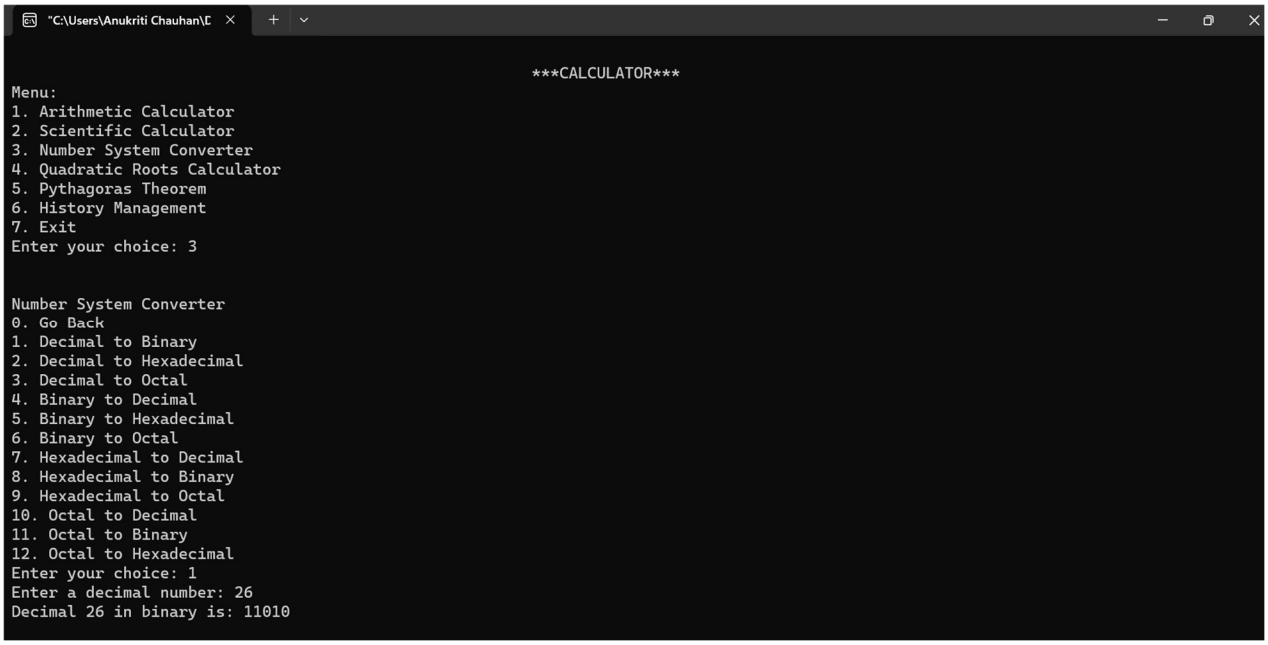
Menu options:

1. Arithmetic calculator (Function name: arithmeticCalculator())

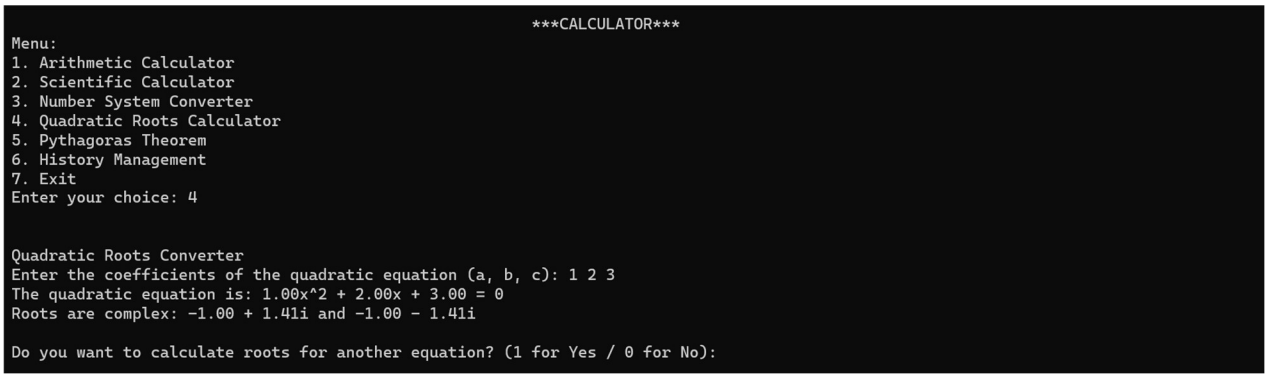


2. Scientific Calculator (Function Name: scientificCalculator())

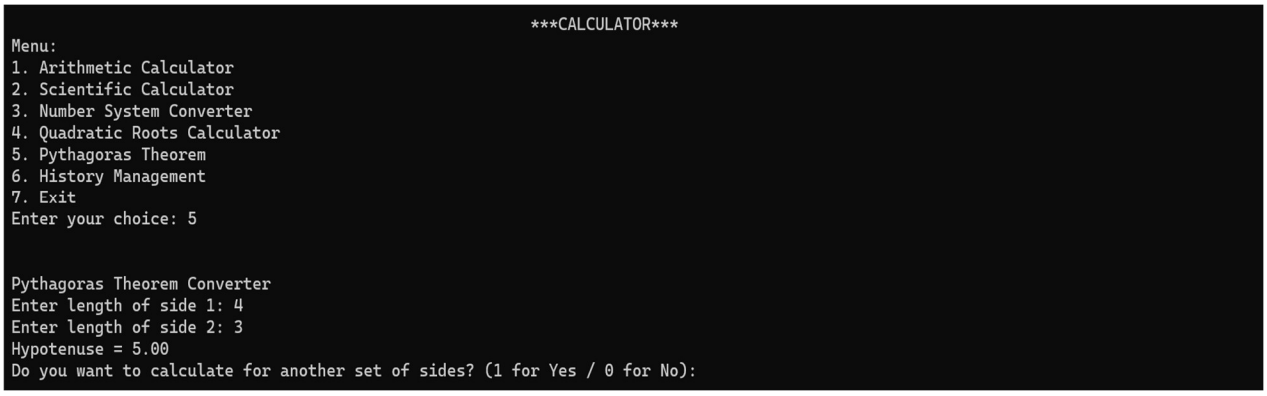
3. Number System Converter (Function Name: numberSystemConverter())



4. Quadratic Roots Calculator (Function Name: quadraticRootsCalculator())



5. Pythagoras Theorem (Function Name: pythagorasTheorem())



6. History Management (Function Name: historyManagement())

```
                                                ***CALCULATOR***
Menu:
1. Arithmetic Calculator
2. Scientific Calculator
3. Number System Converter
4. Quadratic Roots Calculator
5. Pythagoras Theorem
6. History Management
7. Exit
Enter your choice: 6

History Management Menu:
0. Go Back
1. View entire history
2. Clear entire history
Enter your choice: 1
```

```
Viewing entire history:
Pythagoras theorem calculation for sides: 1.00, 3.00 -> Hypotenuse: 3.16
Arithmetic operation: 4.00 + 5.00 = 9.00
Scientific operation: Sin: 0.50
Cos: 0.87
Tan: 0.58

Number System Conversion: Choice 1
Quadratic roots calculation for equation: 1.00x^2 + 2.00x + 3.00 = 0 -> Roots are complex: -1.00 + 1.41i and -1.00 - 1.41i

Quadratic roots calculation for equation: 1.00x^2 + 2.00x + 3.00 = 0 -> Roots are complex: -1.00 + 1.41i and -1.00 - 1.41i

Pythagoras theorem calculation for sides: 3.00, 5.00 -> Hypotenuse: 5.83
Quadratic roots calculation for equation: 1.00x^2 + 2.00x + 3.00 = 0 -> Roots are complex: -1.00 + 1.41i and -1.00 - 1.41i

Pythagoras theorem calculation for sides: 4.00, 3.00 -> Hypotenuse: 5.00

History Management Menu:
0. Go Back
1. View entire history
2. Clear entire history
Enter your choice: 2
History cleared successfully.

History Management Menu:
0. Go Back
1. View entire history
2. Clear entire history
Enter your choice: 1

Viewing entire history:
No history found.
```

7. Exit

```
                                                ***CALCULATOR***
Menu:
1. Arithmetic Calculator
2. Scientific Calculator
3. Number System Converter
4. Quadratic Roots Calculator
5. Pythagoras Theorem
6. History Management
7. Exit
Enter your choice: 7
Exiting the program. Goodbye!

Process returned 0 (0x0)   execution time : 722.803 s
Press any key to continue.
```

Additional:

*(0) Go back feature:

```
Viewing entire history:
No history found.

History Management Menu:
0. Go Back
1. View entire history
2. Clear entire history
Enter your choice: 0

                                                ***CALCULATOR***
Menu:
1. Arithmetic Calculator
2. Scientific Calculator
3. Number System Converter
4. Quadratic Roots Calculator
5. Pythagoras Theorem
6. History Management
7. Exit
Enter your choice: 7
Exiting the program. Goodbye!
```

* Error handling

```
                                                ***CALCULATOR***
Menu:
1. Arithmetic Calculator
2. Scientific Calculator
3. Number System Converter
4. Quadratic Roots Calculator
5. Pythagoras Theorem
6. History Management
7. Exit
Enter your choice: 8
Invalid choice. Please enter a valid option.

                                                ***CALCULATOR***
Menu:
1. Arithmetic Calculator
2. Scientific Calculator
3. Number System Converter
4. Quadratic Roots Calculator
5. Pythagoras Theorem
6. History Management
7. Exit
Enter your choice:
```