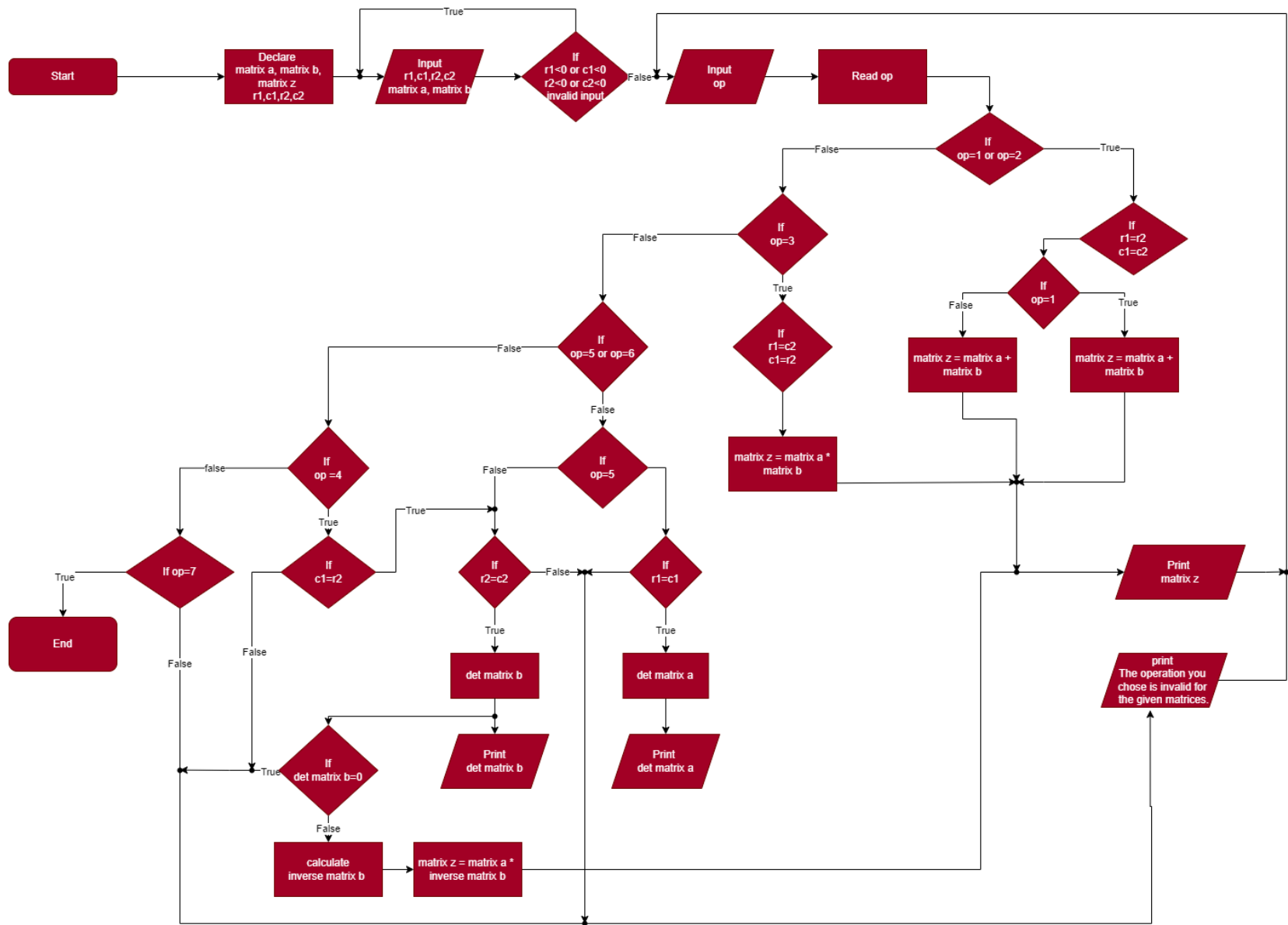



Programming Project Report

Name	Mohamed Abdel Hamid Abdel Hares
ID	2001087
Sec	14




Testing 3x3

 "A:\Programming\c++\problem solving\2022 project\Matrix calculator2001087\main.exe"

```
Please enter dimensions of Matrix A:
3 3
Please enter dimensions of Matrix B:
3 3
Please enter values of Matrix A:
1 2 3 4 5 6 7 8 9
Please enter values of Matrix B:
1 2 3 4 5 6 7 8 9
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
1
2 4 6
8 10 12
14 16 18
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
2
0 0 0
0 0 0
0 0 0
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
3
30 36 42
66 81 96
102 126 150
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
4
The operation you chose is invalid for the given matrices.
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
5
0
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
6
0
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
7
Thank you!

Process returned 0 (0x0)   execution time : 29.725 s
Press any key to continue.
```

Testing YxZ

 "A:\Programming\c++\problem solving\2022 project\Matrix calculator2001087\main.exe"

```
Please enter dimensions of Matrix A:
2 4
Please enter dimensions of Matrix B:
4 4
Please enter values of Matrix A:
1 2 3 4 5 6 7 8
Please enter values of Matrix B:
1 1 1 -1
1 1 -1 1
1 -1 1 1
-1 1 1 1
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
1
The operation you chose is invalid for the given matrices.
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
2
The operation you chose is invalid for the given matrices.
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
3
2 4 6 8
10 12 14 16
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
4
1 1 2 2
3 3 4 4
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
5
The operation you chose is invalid for the given matrices.
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
6
-16
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
7
Thank you!

Process returned 0 (0x0)   execution time : 37.683 s
Press any key to continue.
```

Testing invalid inputs

```
"A:\Programming\c++\problem solving\2022 project\Matrix calculator2001087\main.exe"
Please enter dimensions of Matrix A:
fvfv 2
Please enter dimensions of Matrix A:
1 2
Please enter dimensions of Matrix B:
-2 2
Please enter dimensions of Matrix B:
2 -2
Please enter dimensions of Matrix B:
2 2
Please enter values of Matrix A:
mkjk 4
Please enter values of Matrix A:
1 2
Please enter values of Matrix B:
mlmn mj
Please enter values of Matrix B:
1 2
a 4
Please enter values of Matrix B:
1 2 3 4
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
1
The operation you chose is invalid for the given matrices.
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
2
The operation you chose is invalid for the given matrices.
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
3
7 10
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
4
1 0
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
5
The operation you chose is invalid for the given matrices.
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
6
-2
Please choose operation type(1: A+B, 2: A-B, 3: AxB, 4: A*inverse(B), 5: |A|, 6: |B|, 7: quit):
7
Thank you!

Process returned 0 (0x0)   execution time : 98.465 s
Press any key to continue.
```