```
>> ~/Desktop/Folders/University of Windsor/Fall 2024/COMP-2650/Labs/Lab10/lab10_mandal5 $ vi main.c
>> ~/Desktop/Folders/University of Windsor/Fall 2024/COMP-2650/Labs/Lab10/lab10_mandal5 $ vi arithmetic.c
>> ~/Desktop/Folders/University of Windsor/Fall 2024/COMP-2650/Labs/Lab10/lab10_mandal5 $ vi arithmetic.h
>> ~/Desktop/Folders/University of Windsor/Fall 2024/COMP-2650/Labs/Lab10/lab10_mandal5 $ cc main.c arithmetic.c -o main
>> ~/Desktop/Folders/University of Windsor/Fall 2024/COMP-2650/Labs/Lab10/lab10_mandal5 $ ./main
Enter the command number:
        0) Exit
        1) Canonical SoP
        2) Canonical PoS
Choose: 2 PoS
Error: Invalid input. Please enter 0 or 1.

Enter the command number:
        0) Exit
        1) Canonical SoP
        2) Canonical PoS
Choose: 2

Output value for row# 0 of F1 output variable (0 or 1): 1
Output value for row# 1 of F1 output variable (0 or 1): 0error
Invalid input! Please enter 0 or 1.

Output value for row# 1 of F1 output variable (0 or 1): 1 error
Invalid input! Please enter 0 or 1.

Output value for row# 1 of F1 output variable (0 or 1): -2
Invalid input! Please enter 0 or 1.

Output value for row# 1 of F1 output variable (0 or 1): 0
Output value for row# 2 of F1 output variable (0 or 1): 0
Output value for row# 3 of F1 output variable (0 or 1): 0
Output value for row# 4 of F1 output variable (0 or 1): 1
Output value for row# 5 of F1 output variable (0 or 1): 1
Output value for row# 6 of F1 output variable (0 or 1): 0
Output value for row# 7 of F1 output variable (0 or 1): 0


Z, Y, X,  : F
0, 0, 0,  : 1
0, 0, 1,  : 0
0, 1, 0,  : 0
0, 1, 1,  : 0
1, 0, 0,  : 1
1, 0, 1,  : 1
1, 1, 0,  : 0
1, 1, 1,  : 0
output variable F1 = ∏M(1, 2, 3, 6, 7) = (Z+Y+X')(Z+Y'+X)(Z+Y'+X')(Z'+Y'+X)(Z'+Y'+X')
```

```
Enter the command number:
        0) Exit
        1) Canonical SoP
        2) Canonical PoS
Choose: 1

Output value for row# 0 of F1 output variable (0 or 1): 1
Output value for row# 1 of F1 output variable (0 or 1): 0
Output value for row# 2 of F1 output variable (0 or 1): 0
Output value for row# 3 of F1 output variable (0 or 1): 0
Output value for row# 4 of F1 output variable (0 or 1): 1
Output value for row# 5 of F1 output variable (0 or 1): 1
Output value for row# 6 of F1 output variable (0 or 1): 0
Output value for row# 7 of F1 output variable (0 or 1): 0

Z, Y, X,  : F
0, 0, 0,  : 1
0, 0, 1,  : 0
0, 1, 0,  : 0
0, 1, 1,  : 0
1, 0, 0,  : 1
1, 0, 1,  : 1
1, 1, 0,  : 0
1, 1, 1,  : 0
output variable F1 = ∑m(0, 4, 5) = Z'Y'X' + ZY'X' + ZY'X

Enter the command number:
        0) Exit
        1) Canonical SoP
        2) Canonical PoS
Choose: 0 exit
Error: Invalid input. Please enter 0 or 1.

Enter the command number:
        0) Exit
        1) Canonical SoP
        2) Canonical PoS
Choose: 0
Exiting...

➤➤ ~/Desktop/Folders/University of Windsor/Fall 2024/COMP-2650/Labs/Lab10/lab10_mandal5 $ _
```