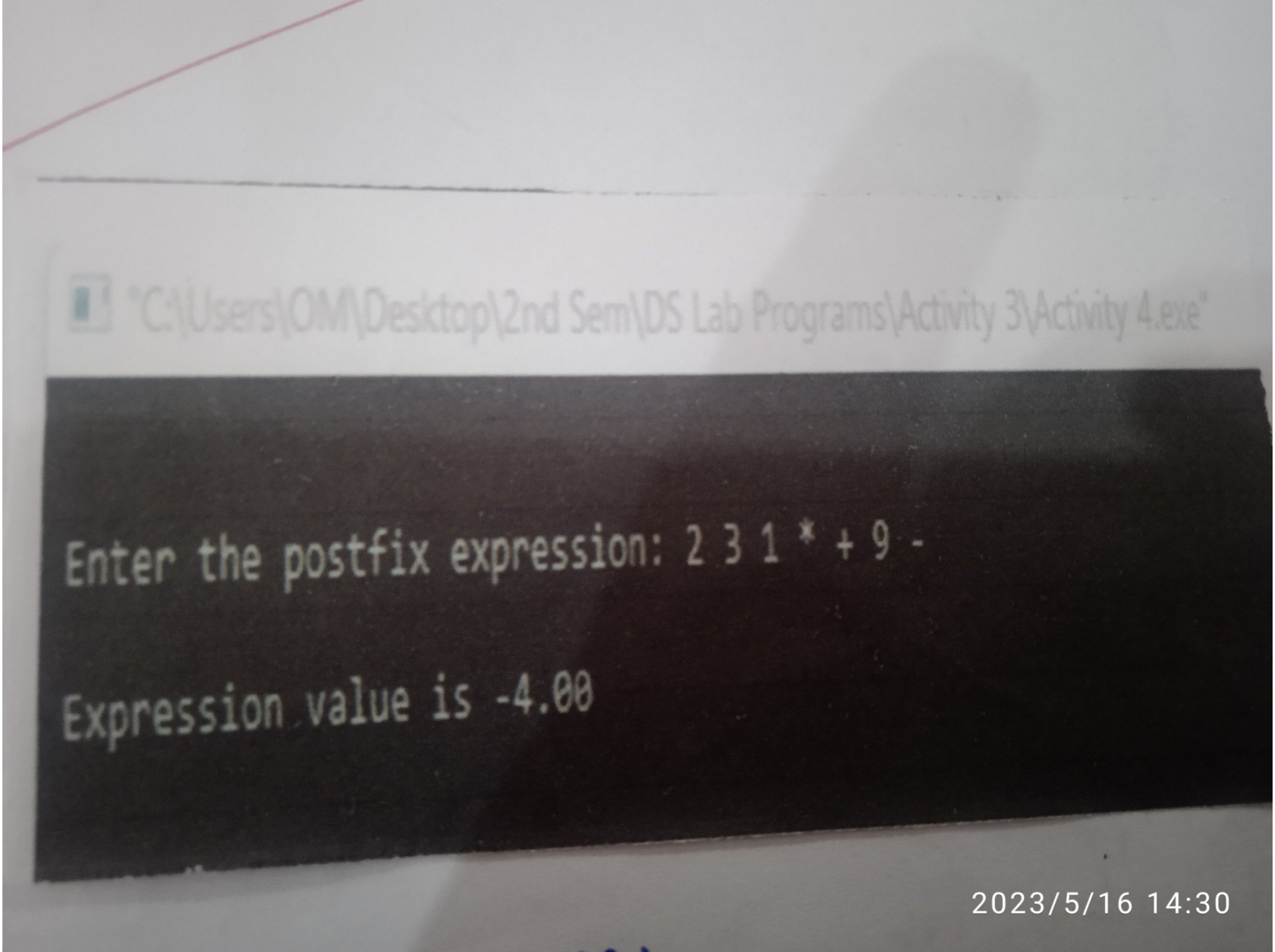
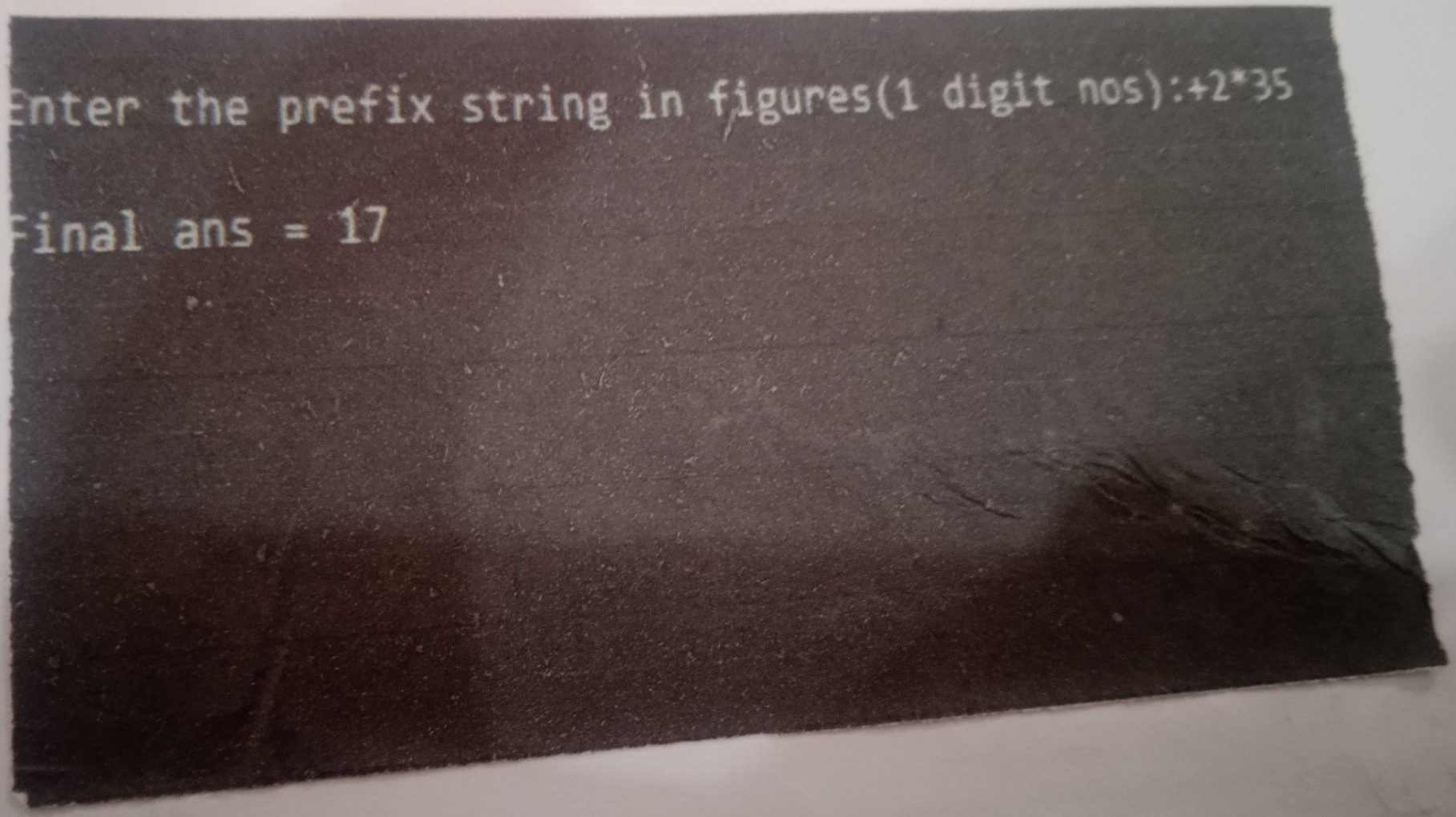
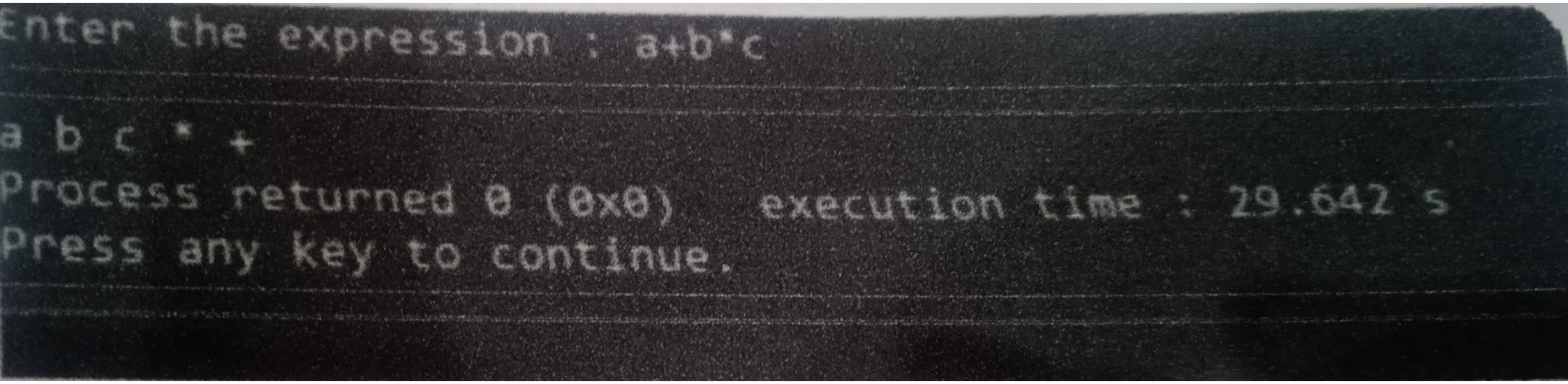

"C:\Users\OM\Desktop\2nd Sem\DS Lab Programs\Activity 3\Activity 4.exe"
Enter the postfix expression: 2 3 1 * + 9 -
Expression value is -4.00
2023/5/16 14:30

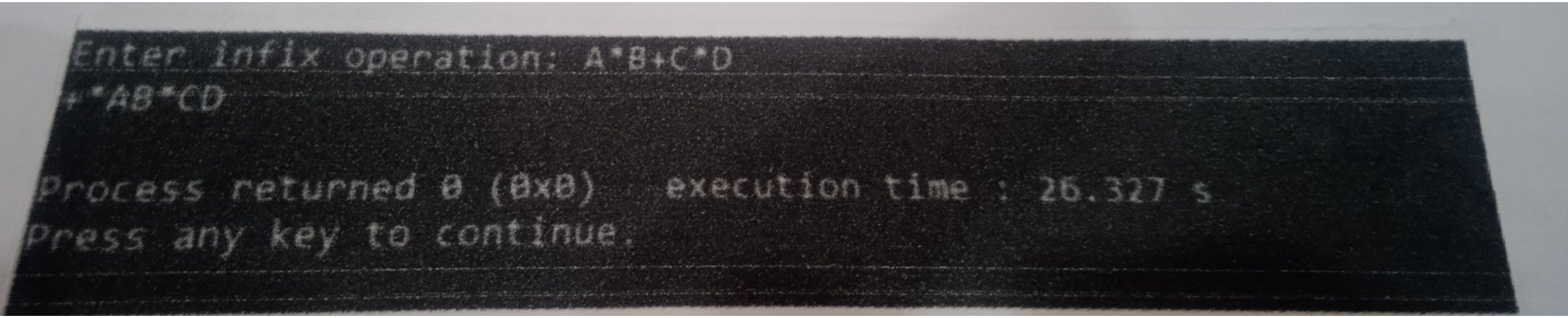
Select "C:\Users\OM\Desktop\Activity 4b.exe"

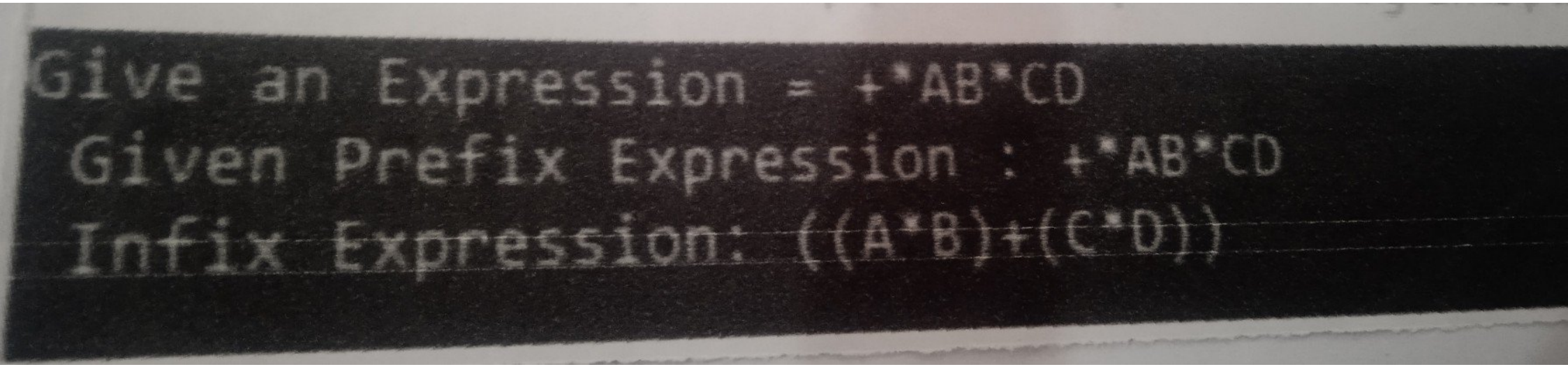


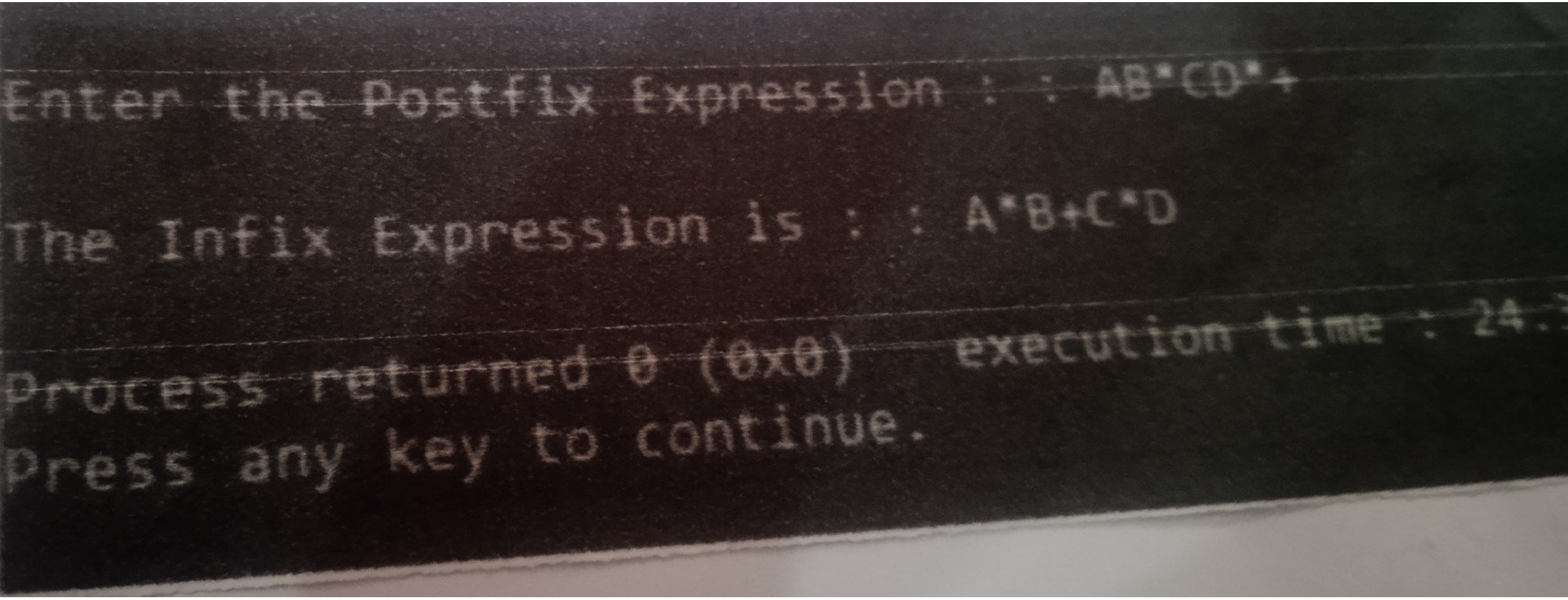
2023/5/16 14:31

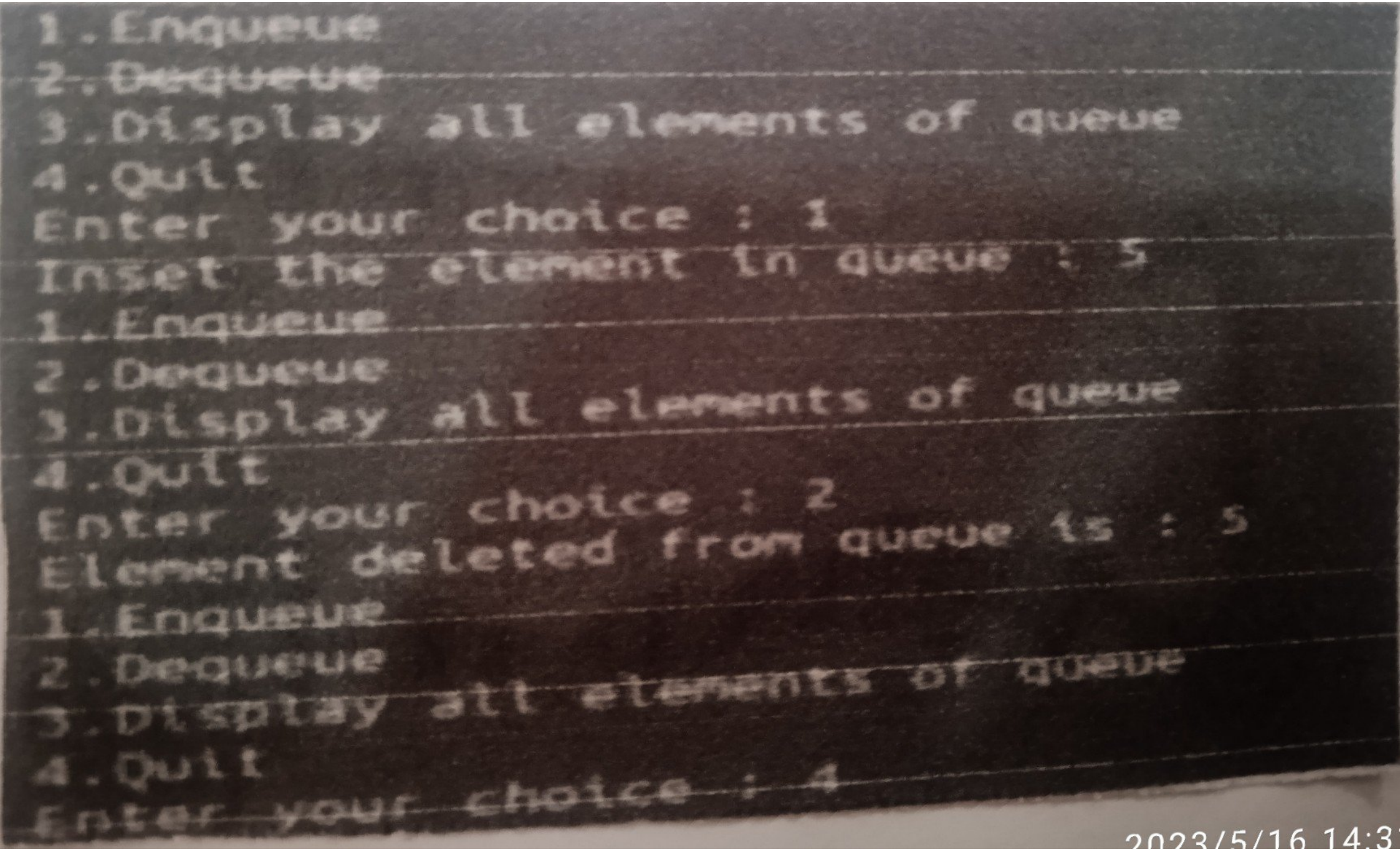
```
Enter the infix expression to evaluate:2*(4+3)/2
7
Process returned 0 (0x0)   execution time : 28.645 s
Press any key to continue.
```


Enter the expression : a+b*c
a b c * +
Process returned 0 (0x0) execution time : 29.642 s
Press any key to continue.


Enter infix operation: A*B+C*D
+*AB*CD
Process returned 0 (0x0) execution time : 26.327 s
Press any key to continue.


Give an Expression = +*AB*CD
Given Prefix Expression : +*AB*CD
Infix Expression: ((A*B)+(C*D))


Enter the Postfix Expression : : AB*CD*+
The Infix Expression is : : A*B+C*D
Process returned 0 (0x0) execution time : 24.
Press any key to continue.


1.Enqueue
2.Dequeue
3.Display all elements of queue
4.Quit
Enter your choice : 1
Inset the element in queue : 5
1.Enqueue
2.Dequeue
3.Display all elements of queue
4.Quit
Enter your choice : 2
Element deleted from queue is : 5
1.Enqueue
2.Dequeue
3.Display all elements of queue
4.Quit
Enter your choice : 4

```
Enter your choice?
3

Enter element value1

Enter the location after which you want to insert 1

Node Inserted

**********Main Menu**********

Choose one option from the following list ...

==========

1.Insert in beginning
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete node after specified location
7.Search for an element
8.Show
9.Exit

Enter your choice?
8

printing values . . . . .

1
2
1
```

```
Enter your choice?
4

Node deleted from the begining ...


*********Main Menu*********

Choose one option from the following list ...

===============================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete node after specified location
7.Search for an element
8.Show
9.Exit

Enter your choice?
8
Nothing to print

*********Main Menu*********

Choose one option from the following list ...

===============================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete node after specified location
7.Search for an element
8.Show
9.Exit

Enter your choice?
9
```

```
Enter your choice?

7

Enter item which you want to search?
2
Item found at location 2 Item not found


*********Main Menu*********

Choose one option from the following list ...

==================================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete node after specified location
7.Search for an element
8.Show
9.Exit

Enter your choice?
6

 Enter the location of the node after which you want
2

Deleted node 3

*********Main Menu*********

Choose one option from the following list ...

==================================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete node after specified location
7.Search for an element
8.Show
9.Exit
```

```
Enter your choice?
4

node deleted

**********Main Menu**********

Choose one option from the following list ...

==========

1.Insert in beginning
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete the node after the given data
7.Search
8.Show
9.Exit

Enter your choice?
5

node deleted
```

```
Enter your choice?
7

Enter item which you want to search?
4

item found at location 3
**********Main Menu**********

Choose one option from the following list ...

==================================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete the node after the given data
7.Search
8.Show
9.Exit

Enter your choice?
6

 Enter the data after which the node is to be deleted : 2

node deleted
```

```
Enter your choice?
5

Deleted Node from the last ...


*********Main Menu*********

Choose one option from the following list ...

================================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete node after specified location
7.Search for an element
8.Show
9.Exit

Enter your choice?
4

Node deleted from the begining ...


*********Main Menu*********

Choose one option from the following list ...

================================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete node after specified location
7.Search for an element
8.Show
9.Exit

Enter your choice?
8
Nothing to print
```

```
Enter your choice?
2

Enter value1

node inserted

**********Main Menu*********

Choose one option from the following list ...

==========================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete the node after the given data
7.Search
8.Show
9.Exit

Enter your choice?
3
Enter the location1
Enter value4

node inserted
```

```
**********Main Menu**********

Choose one option from the following list ...

==========================================================

1.Insert in beginning
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete the node after the given data
7.Search
8.Show
9.Exit

Enter your choice?
1

Enter Item value2

Node Inserted
```

```
Enter your choice?
8

 printing values...
2
1
4
1

**********Main Menu**********

Choose one option from the following list ...

==========================================

1.Insert in begining
2.Insert at last
3.Insert at any random location
4.Delete from Beginning
5.Delete from last
6.Delete the node after the given data
7.Search
8.Show
9.Exit

Enter your choice?
7

Enter item which you want to search?
4

item found at location 3
**********Main Menu**********
```

```
Enter your choice: 4

---------------------------------

Deleting a node from beginning

.................................

Do you want to continue? (Y/N) : y


------ Circular Singly Linked List -------

1. Insert a node at beginning
2. Insert a node at end
3. Insert a node at given position

4. Delete a node from beginning
5. Delete a node from end
6. Delete a node from given position

7. Print list from beginning
8. Print list from end
9. Search a node data
10. Update a node data
11. Exit

---------------------------------

Enter your choice: 5

-----------------------------

Deleting a node from end

.............................

Do you want to continue? (Y/N) : y
```

```
Enter your choice: 7

--------------------------------

Printing the list from beginning


1 2 5

--------------------------------

Do you want to continue? (Y/N) : y


------- Circular Singly Linked List --------

1. Insert a node at beginning
2. Insert a node at end
3. Insert a node at given position

4. Delete a node from beginning
5. Delete a node from end
6. Delete a node from given position

7. Print list from beginning
8. Print list from end
9. Search a node data
10. Update a node data
11. Exit

--------------------------------

Enter your choice: 8

--------------------------------

Printing the list from end

5 2 1
--------------------------------

Do you want to continue? (Y/N) : y
```

```
------ Circular Singly Linked List -------

1. Insert a node at beginning
2. Insert a node at end
3. Insert a node at given position

4. Delete a node from beginning
5. Delete a node from end
6. Delete a node from given position

7. Print list from beginning
8. Print list from end
9. Search a node data
10. Update a node data
11. Exit

--------------------------------

Enter your choice: 3

--------------------------------

Inserting a node at the given position

Enter Data: 1


Enter Position: 1

................................

Do you want to continue? (Y/N) : y
```

```
Enter your choice: 6

--------------------------------

Delete a node from given position


Enter Position: 2

--------------------------------

Do you want to continue? (Y/N) : y


------ Circular Singly Linked List --------

1. Insert a node at beginning
2. Insert a node at end
3. Insert a node at given position

4. Delete a node from beginning
5. Delete a node from end
6. Delete a node from given position

7. Print list from beginning
8. Print list from end
9. Search a node data
10. Update a node data
11. Exit

--------------------------------

Enter your choice: 7

--------------------------------

Printing the list from beginning


1

--------------------------------

Do you want to continue? (Y/N) : y
```

```
--------------------------------

Enter your choice: 1

--------------------------------

Inserting a node at beginning

Enter Data: 2

********************************

Do you want to continue? (Y/N) : y
```

```
Enter your choice: 9

--------------------------------

Searching the node data

Enter Data: 2

          Data Found

--------------------------------

Do you want to continue? (Y/N) : y


------ Circular Singly Linked List ------

1. Insert a node at beginning
2. Insert a node at end
3. Insert a node at given position

4. Delete a node from beginning
5. Delete a node from end
6. Delete a node from given position

7. Print list from beginning
8. Print list from end
9. Search a node data
10. Update a node data
11. Exit

--------------------------------

Enter your choice: 10

--------------------------------

Updating the node data

Enter Data: 2


Enter Position: 1

--------------------------------

Do you want to continue? (Y/N) : y
```

```
**********

Enter your choice: 7

**********

Printing the list from beginning


1

**********

Do you want to continue? (Y/N) : y


------ Circular Singly Linked List -------

1. Insert a node at beginning
2. Insert a node at end
3. Insert a node at given position

4. Delete a node from beginning
5. Delete a node from end
6. Delete a node from given position

7. Print list from beginning
8. Print list from end
9. Search a node data
10. Update a node data
11. Exit

**********

Enter your choice: 11

**********

Program was terminated
```

ubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
nitika@nitika-VirtualBox:~/Desktop/CODES$ touch activity10.c
nitika@nitika-VirtualBox:~/Desktop/CODES$ gcc activity10.c
nitika@nitika-VirtualBox:~/Desktop/CODES$ ./a.out

Implementation of Stack using Linked List

1. Push
2. Pop
3. Display
4. Exit

Enter your choice : 1

Enter the value to insert: 12
Node is Inserted


1. Push
2. Pop
3. Display
4. Exit

Enter your choice : 2
Popped element is :12

1. Push
2. Pop
3. Display
4. Exit

Enter your choice : 56

Wrong Choice

1. Push
2. Pop
3. Display
4. Exit

Enter your choice : 3

Stack Underflow

1. Push
2. Pop
3. Display
4. Exit

Enter your choice : 4
nitika@nitika-VirtualBox:~/Desktop/CODES$
```