

"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

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

Enter the prefix string in figures(1 digit nos):+2\*35

Final ans = 17

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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 =  $+ * A B * C D$

Given Prefix Expression :  $+ * A B * C D$

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

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Enter your choice?

3

Enter element value:

Enter the location after which you want to insert it:

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 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 beginning ...

\*\*\*\*\*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
  - B.Show
  - 9.Exit

Enter your choice?

B

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
  - B.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 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?

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 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?

1

Enter Item value?

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 beginnning  
-----
```

```
1  
-----
```

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

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

- 1. Insert a node at beginnning
  - 2. Insert a node at end
  - 3. Insert a node at given position
  - 4. Delete a node from beginnning
  - 5. Delete a node from end
  - 6. Delete a node from given position
  - 7. Print list from beginnning
  - 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$
```