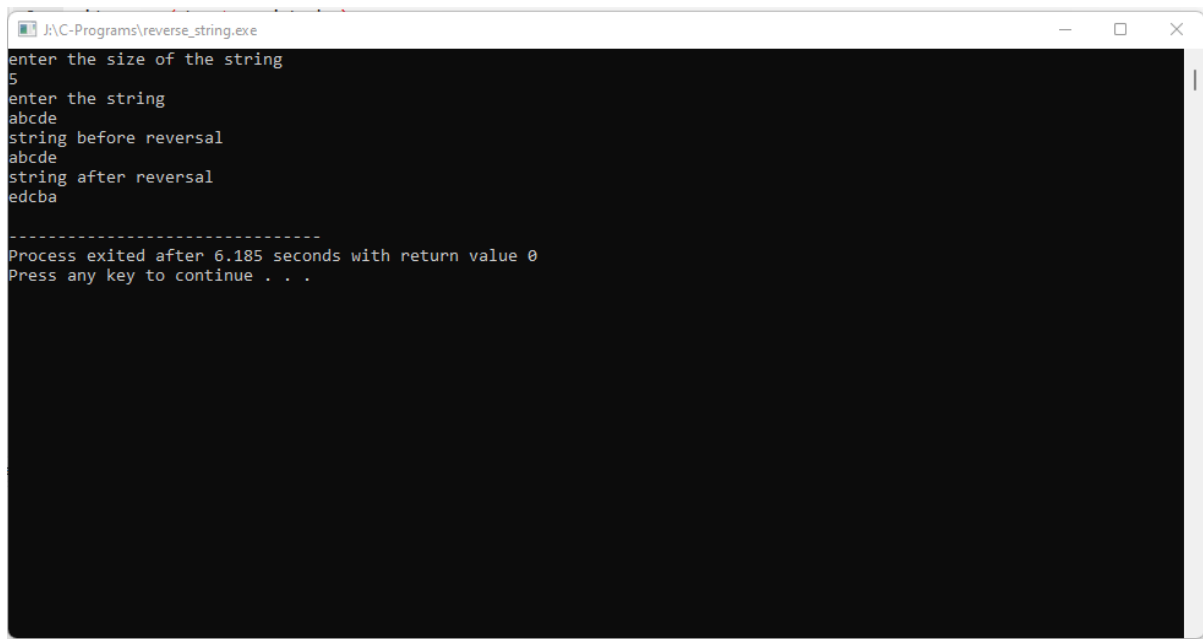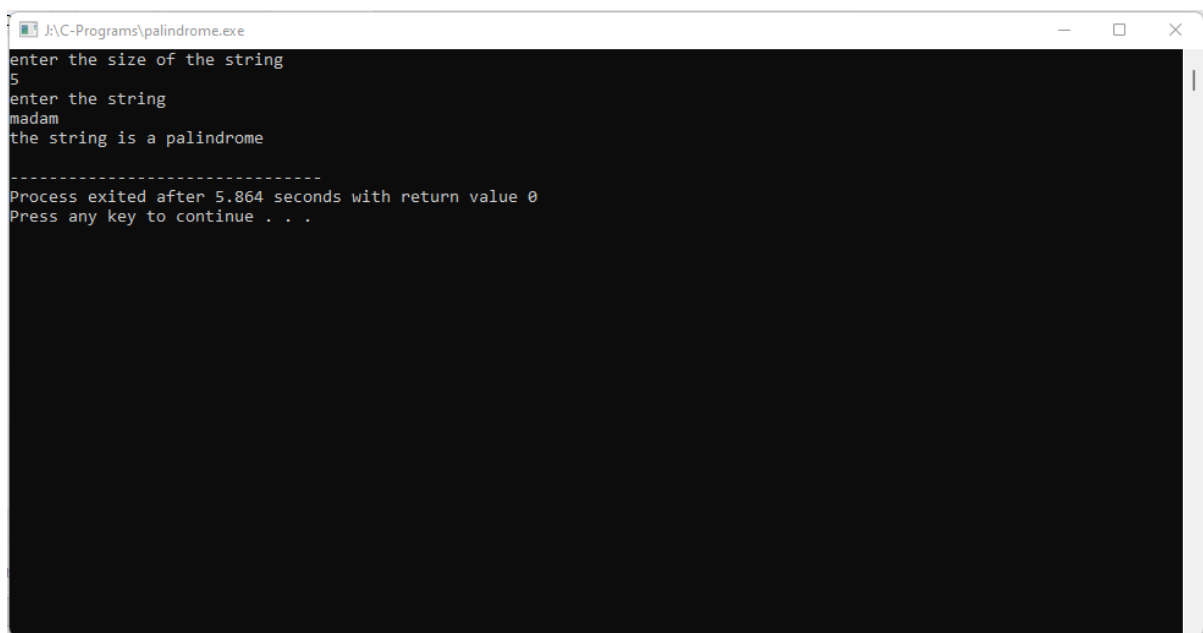1.

```
J:\C-Programs\reverse_string.exe                                    —    □    ×
enter the size of the string
5
enter the string
abcde
string before reversal
abcde
string after reversal
edcba

--------------------------------
Process exited after 6.185 seconds with return value 0
Press any key to continue . . .
```
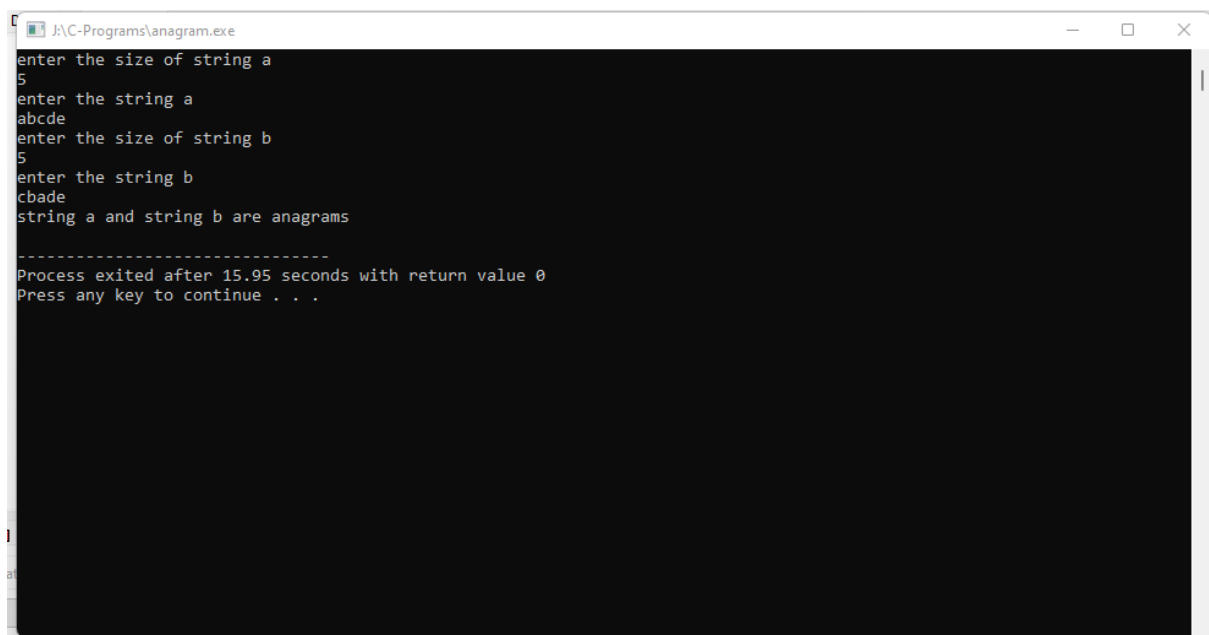
2.

```
J:\C-Programs\palindrome.exe                                       —    □    ×
enter the size of the string
5
enter the string
madam
the string is a palindrome

--------------------------------
Process exited after 5.864 seconds with return value 0
Press any key to continue . . .
```

3.

```
J:\C-Programs\anagram.exe                                    —    □    ×

enter the size of string a
5
enter the string a
abcde
enter the size of string b
5
enter the string b
cbade
string a and string b are anagrams

-------------------------------
Process exited after 15.95 seconds with return value 0
Press any key to continue . . .
```

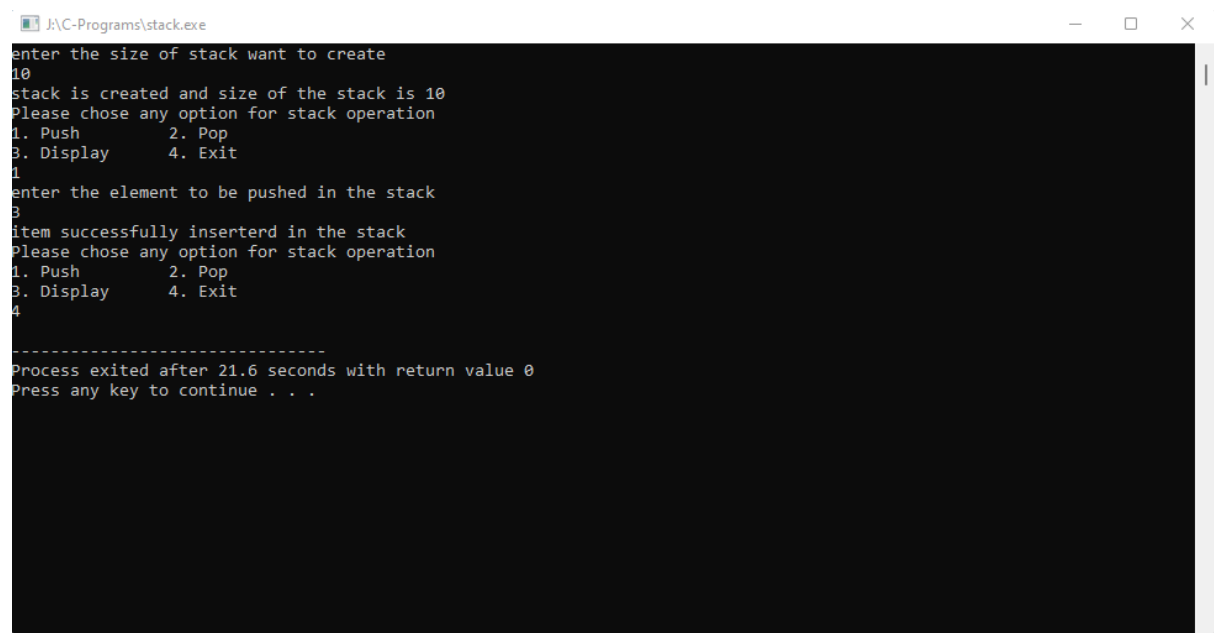4.

```
J:\C-Programs\diff.exe                                       —    □    ×

enter the size of the array
5
enter the elements in the array
16
95
62
74
3
difference betwwen the largest and smallest number in the array is: 92

-------------------------------
Process exited after 9.259 seconds with return value 0
Press any key to continue . . .
```
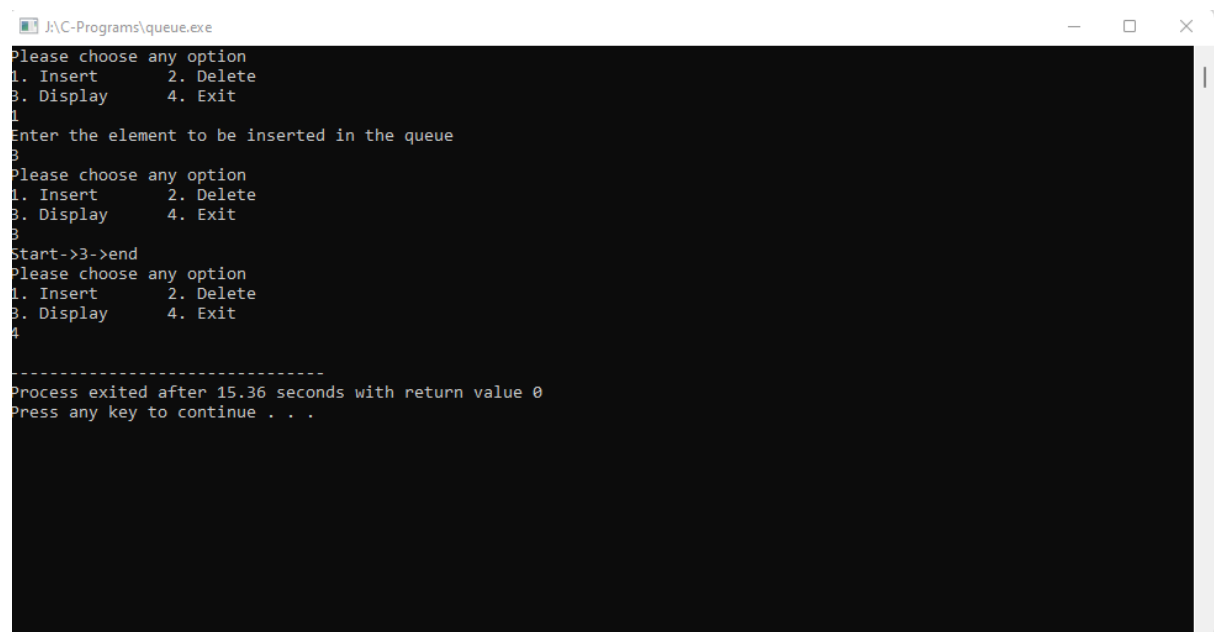
5.

```
J:\C-Programs\stack.exe                                                    —   □   ×

enter the size of stack want to create
10
stack is created and size of the stack is 10
Please chose any option for stack operation
1. Push           2. Pop
3. Display        4. Exit
1
enter the element to be pushed in the stack
3
item successfully inserterd in the stack
Please chose any option for stack operation
1. Push           2. Pop
3. Display        4. Exit
4

--------------------------------
Process exited after 21.6 seconds with return value 0
Press any key to continue . . .
```

6.

```
J:\C-Programs\queue.exe                                                    —   □   ×

Please choose any option
1. Insert         2. Delete
3. Display        4. Exit
1
Enter the element to be inserted in the queue
3
Please choose any option
1. Insert         2. Delete
3. Display        4. Exit
3
Start->3->end
Please choose any option
1. Insert         2. Delete
3. Display        4. Exit
4

--------------------------------
Process exited after 15.36 seconds with return value 0
Press any key to continue . . .
```

7.

```
enter the length of the expression
5
enter the expression
{(a)}
expression have balanced parenthesis

--------------------------------
Process exited after 14.43 seconds with return value 0
Press any key to continue . . .
```

8 & 9.

```
Please choose any option
1. Insert      2. Search      3. Delete
4. Inorder traverse    5. Preorder traverse    6. Postorder traverse
7. Exit
1
enter the item to be inserted
6
Please choose any option
1. Insert      2. Search      3. Delete
4. Inorder traverse    5. Preorder traverse    6. Postorder traverse
7. Exit
1
enter the item to be inserted
2
Please choose any option
1. Insert      2. Search      3. Delete
4. Inorder traverse    5. Preorder traverse    6. Postorder traverse
7. Exit
5
6 2 Please choose any option
1. Insert      2. Search      3. Delete
4. Inorder traverse    5. Preorder traverse    6. Postorder traverse
7. Exit
7

--------------------------------
Process exited after 22.72 seconds with return value 0
Press any key to continue . . .
```

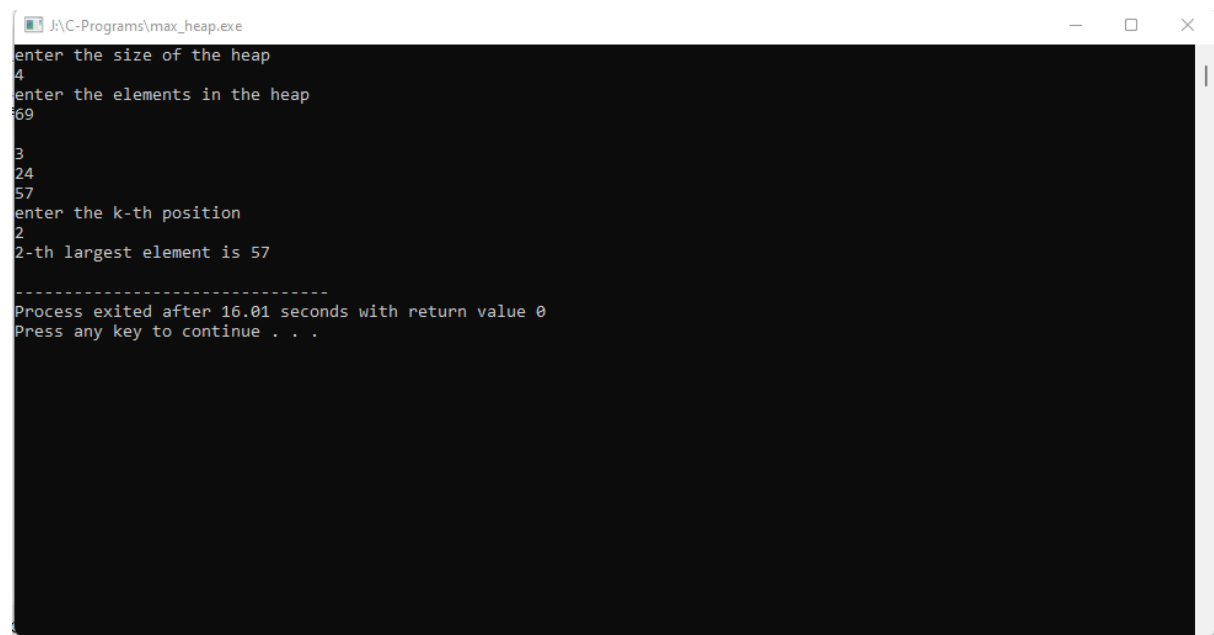10.

```
J:\C-Programs\linked_list.exe                                    —    □    ×
1. Insert at head       2. Insert at end       3. Insert at any position
4. Delete from head     5. Delete from End     6. Delete from any position
7. Search item in Linked-list   8. Display Linked-list   9. Exit
1
enter the item to be inserted
10
Start->10->null
Please choose any option
1. Insert at head       2. Insert at end       3. Insert at any position
4. Delete from head     5. Delete from End     6. Delete from any position
7. Search item in Linked-list   8. Display Linked-list   9. Exit
2
enter the item to be inserted
2
Start->10->2->null
Please choose any option
1. Insert at head       2. Insert at end       3. Insert at any position
4. Delete from head     5. Delete from End     6. Delete from any position
7. Search item in Linked-list   8. Display Linked-list   9. Exit
3
enter the item to be inserted
3
enter the position item to be inserted
2
Start->10->3->2->null
Please choose any option
1. Insert at head       2. Insert at end       3. Insert at any position
4. Delete from head     5. Delete from End     6. Delete from any position
7. Search item in Linked-list   8. Display Linked-list   9. Exit
```

11.

```
J:\C-Programs\min_heap.exe                                       —    □    ×
enter max size of the heap
10
how many elements want to insert in the heap initially
2
enter the elements
3
2
choose any option
1. Insert       2. Delete
3. Display      4. Exit
1
enter the element to be inserted
6
n=3
2  3  6
choose any option
1. Insert       2. Delete
3. Display      4. Exit
3
2  3  6
choose any option
1. Insert       2. Delete
3. Display      4. Exit
```

12.

```
J:\C-Programs\max_heap.exe                                          —    □    ✕

enter the size of the heap
4
enter the elements in the heap
69

3
24
57
enter the k-th position
2
2-th largest element is 57

--------------------------------
Process exited after 16.01 seconds with return value 0
Press any key to continue . . .
```