



Experiment 1.1

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Subject Name: Java Program Lab Subject Code: 20CSP-219

Q1. Write a program to perform Insertion and deletion operation where Let LA is a Linear Array (unordered) with N elements and K is a positive integer such that K<=N.

1) Aim/Overview of the practical:

To write a program to perform insertion and deletion operation.

2) Software required:

Vs Code







3) Source Code:

```
void display(int arr[], int elements)
{
    for (int i = 0; i < elements; i++)
    {
        cout << arr[i] << " ";
    }
}
int main()
{
    int n, x, elements, end;
    int arr[100];
    cout << "Enter the number of elements you want to enter: " << endl;
    cin >> elements;
    inputArray(arr, elements);
    cout << "Original array: ";
    display(arr, elements);
    cout << endl;
    insertElement(arr, elements, x, n);
    cout << "Array after the insertion of value: ";
    elements = elements + 1;
    display(arr, elements);
    cout << endl;
    deleteElement(arr, elements, n);
    cout << endl;
    deleteElement(arr, elements, n);
    cout << "Array after the deletion of value: ";
    elements = elements - 1;
    display(arr, elements);
    cout << endl;
    return 0;
}</pre>
```





4. Output:

```
Enter the number of elements you want to enter:

4
Enter the value of elements
1
2
3
4
Original array: 1 2 3 4
Enter the value of the element you want to insert:
9
Enter the index where you want to insert:
4
The element is inserted successfully!
Array after the insertion of value: 1 2 3 4 9
Enter the index of the element you want to delete:
0
The element is deleted successfully!
Array after the deletion of value: 2 3 4 9
```

