

NAME: RAJDEEP JAISWAL

UID: 20BCS2761

BRANCH: BE_CSE

SECTION:20BCS_13_A

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SUBJECT: DS LAB

QUESTION 2:

Write a program that performs a traversing operation where Let LA is a Linear Array (unordered) with N elements.

SOLUTION:

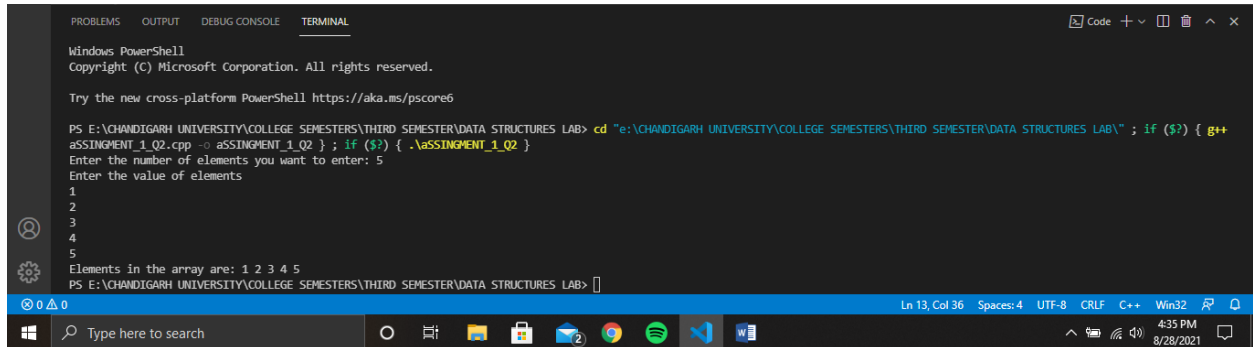
ALGORITHM

1. Start
2. Set J=N
3. Set N = N+1
4. Set Linear array[J+1] = LA[J]
5. Set J = J-1
6. Set Linear array[K] = elements
7. Print J, elements
8. Stop

PROGRAM CODE

```
#include<iostream>
using namespace std;
int arr_input(int arr[], int elements)
{
    cout<<"Enter the value of elements"<<endl;
    for (int i = 0; i < elements ; i++)
    {
        cin>>arr[i];
    }
}
int 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: ";
    cin>>elements;
    arr_input(arr, elements);
    cout<<"Elements in the array are: ";
    display(arr,elements);
    return 0;
}
```

OUTPUT



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\CHANDIGARH UNIVERSITY\COLLEGE SEMESTERS\THIRD SEMESTER\DATA STRUCTURES LAB> cd "e:\CHANDIGARH UNIVERSITY\COLLEGE SEMESTERS\THIRD SEMESTER\DATA STRUCTURES LAB\" ; if ($?) { g++
aSSINGMENT_1_Q2.cpp -o aSSINGMENT_1_Q2 } ; if ($?) { .\aSSINGMENT_1_Q2 }
Enter the number of elements you want to enter: 5
Enter the value of elements
1
2
3
4
5
Elements in the array are: 1 2 3 4 5
PS E:\CHANDIGARH UNIVERSITY\COLLEGE SEMESTERS\THIRD SEMESTER\DATA STRUCTURES LAB>
```