

NAME – RAJDEEP JAISWAL

DATE -

BRANCH – BTECH CSE

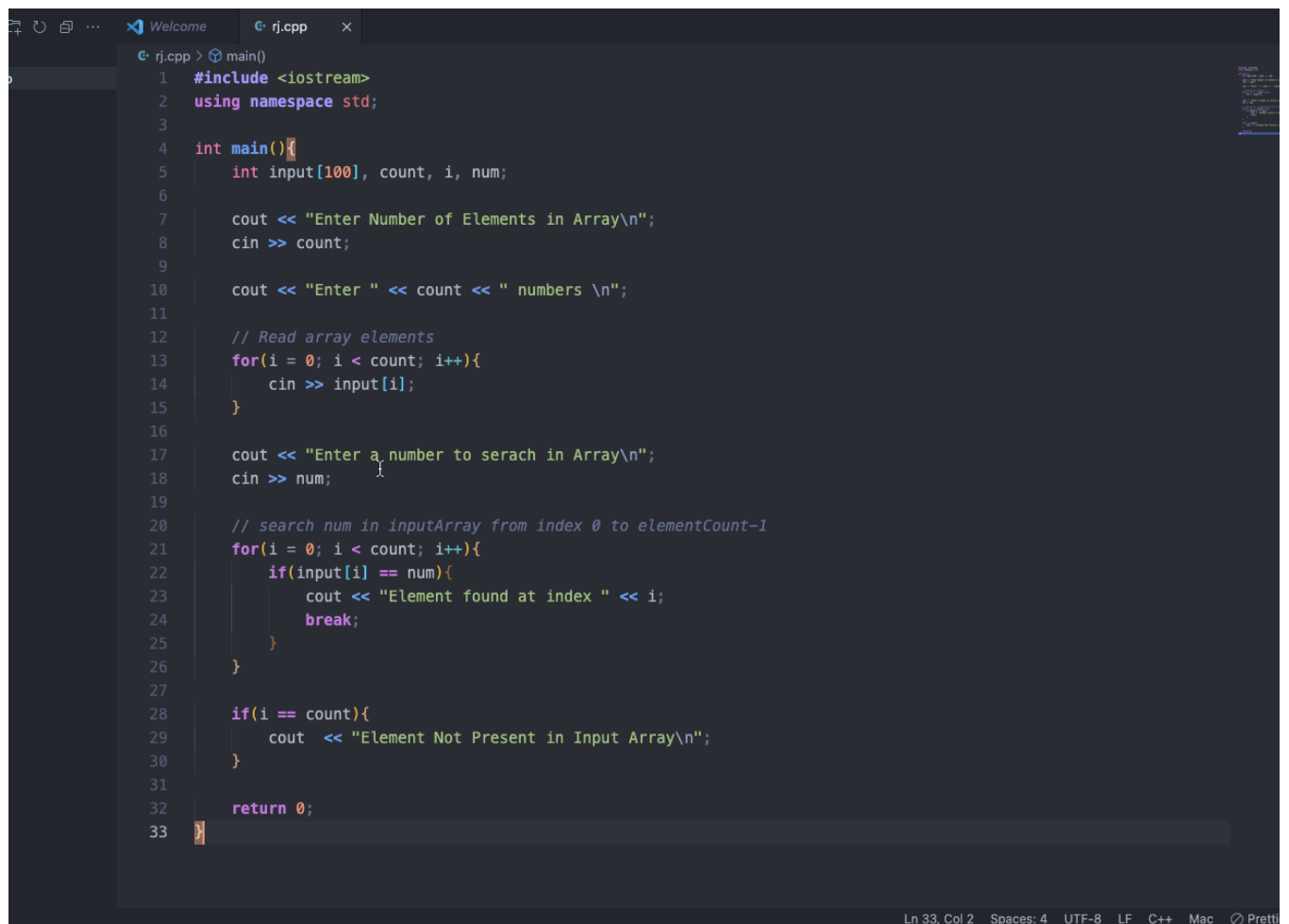
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SUB- DATA STRUCTURE LAB

Q 1 - Write a Program in C/ C++ that asks from user to enter any 10 array elements, and then ask to enter a number to search from the given array.

CODE IN COMPILER –



```
1 #include <iostream>
2 using namespace std;
3
4 int main(){
5     int input[100], count, i, num;
6
7     cout << "Enter Number of Elements in Array\n";
8     cin >> count;
9
10    cout << "Enter " << count << " numbers \n";
11
12    // Read array elements
13    for(i = 0; i < count; i++){
14        cin >> input[i];
15    }
16
17    cout << "Enter a number to serach in Array\n";
18    cin >> num;
19
20    // search num in inputArray from index 0 to elementCount-1
21    for(i = 0; i < count; i++){
22        if(input[i] == num){
23            cout << "Element found at index " << i;
24            break;
25        }
26    }
27
28    if(i == count){
29        cout << "Element Not Present in Input Array\n";
30    }
31
32    return 0;
33 }
```

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CODE IN TEXT FORM –

```
#include <iostream>
using namespace std;

int main(){
    int input[100], count, i, num;

    cout << "Enter Number of Elements in Array\n";
    cin >> count;

    cout << "Enter " << count << " numbers \n";

    // Read array elements
    for(i = 0; i < count; i++){
        cin >> input[i];
    }

    cout << "Enter a number to serach in Array\n";
    cin >> num;

    // search num in inputArray from index 0 to elementCount-1
    for(i = 0; i < count; i++){
        if(input[i] == num){
            cout << "Element found at index " << i;
            break;
        }
    }

    if(i == count){
        cout << "Element Not Present in Input Array\n";
    }

    return 0;
}
```

OUTPUT -

```
15     }
16
17     cout << "Enter a number to serach in Array\n";
18     cin >> num;
```

PROBLEMS OUTPUT TERMINAL 1: Code + - □ ✕ ^ ×

```
rajdeepjaiswal@Rajdeeps-Air CODE % cd "/Volumes/RAJ 2/CODE/" && g++ rj.cpp -o rj && "/Volumes/RAJ 2/CODE/"rj
Enter Number of Elements in Array
10
Enter 10 numbers
0
1
2
3
4
5
6
7
8
9
Enter a number to serach in Array
6
Element found at index 6
rajdeepjaiswal@Rajdeeps-Air CODE %
```

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