

# STACK

## INPUT:

```
#include<iostream>

#include<stack>

using namespace std;

int main()
{
    stack<int>myStack;

    int num, element;

    cout<<"Enter number of elements to be inserted:"<<endl;

    cin>>num;

    for(int i=0; i<num; i++)
    {
        cout<<"Enter elements to be entered:"<<endl;

        cin>>element;

        myStack.push(element);

    }

    cout<<"Do you still want to add element(yes/no):"<<endl;

    char s='y';

    cin>>s;

    if(s=='y' || s=='Y')
    {

        cout<<"Enter element to be added:"<<endl;

        cin>>element;

        myStack.push(element);

        cout<<"Enter elements to be added:"<<endl;

        cin>>element;

        myStack.push(element);

        myStack.pop();
```

```

    }

    cout<<"All element after pop operation"<<endl;
    while(!myStack.empty())
    {
        cout<<" "<<myStack.top()<<endl;
        myStack.pop();
    }

    return 0;
}

```

### **OUTPUT:**

```

C:\Users\Ankita\OneDrive\Documents\OOPS\Stack.exe
Enter number of elements to be inserted:
5
Enter elements to be entered:
10
Enter elements to be entered:
20
Enter elements to be entered:
30
Enter elements to be entered:
40
Enter elements to be entered:
50
Do you still want to add element(yes/no):
Y
Enter element to be added:
60
Enter elements to be added:
70
All element after pop operation
60
50
40
30
20
10

-----
Process exited after 48 seconds with return value 0
Press any key to continue . . .

```

# QUEUE

## INPUT:

```
#include<iostream>
```

```
#include<queue>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    queue<string>myQueue;
```

```
    myQueue.push("Ankita");
```

```
    myQueue.push("Balaji");
```

```
    myQueue.push("Nadarge");
```

```
    myQueue.push("CST");
```

```
    myQueue.push("B+");
```

```
    cout<<"Size of Queue is:"<<myQueue.size()<<endl;
```

```
    cout<<"Front:"<<myQueue.front()<<endl;
```

```
    cout<<"Back:"<<myQueue.back()<<endl;
```

```
    cout<<"Queue:"<<" ";
```

```
    while(!myQueue.empty())
```

```
    {
```

```
        myQueue.pop();
```

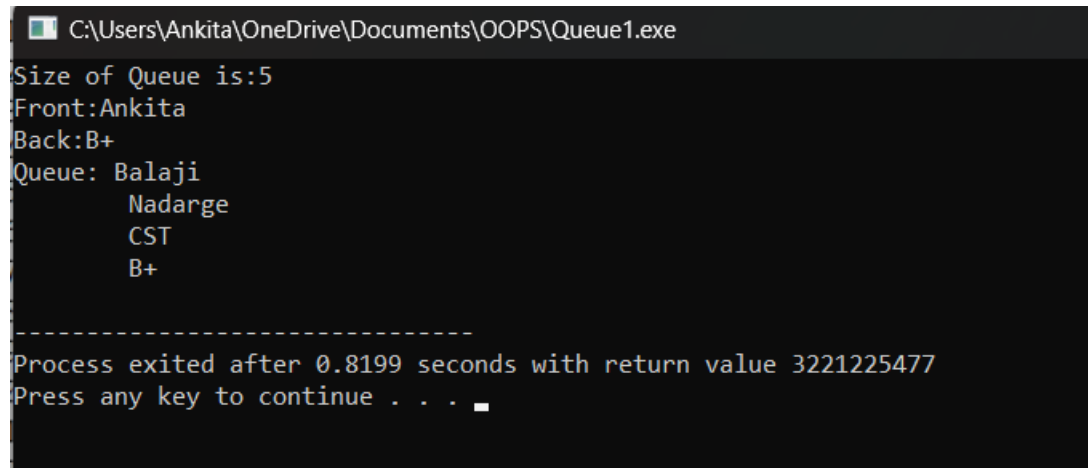
```
        cout<<myQueue.front()<<endl<<"\t";
```

```
    }
```

```
    cout<<endl;
```

```
    return 0;  
}
```

### **OUTPUT:**



```
C:\Users\Ankita\OneDrive\Documents\OOPS\Queue1.exe  
Size of Queue is:5  
Front:Ankita  
Back:B+  
Queue: Balaji  
      Nadarge  
      CST  
      B+  
  
-----  
Process exited after 0.8199 seconds with return value 3221225477  
Press any key to continue . . .
```