14) REVERSING THE STACK USING RECURSION:

METHOD:
USING THE RECURSION INSIDE THE RECURSION.
The concept is little bit complex.So just refer the video explanation below:
LINK OF EXPLANATION : Reverse a stack using recursion | Stacks | Love Babbar DSA Shee..

CODE OF THE ABOVE METHOD:

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

void insertAtBottom(stack<int> &s,int data){
   if(s.size()==0){
      s.push(data);
   }
   else{
      int t=s.top();
      s.pop();
      insertAtBottom(s,data);
      s.push(t);
      return;
   }
}

void reverse(stack<int> &s){
   if(s.size()==0){
      return;
   }
   else{
      int data=s.top();
      s.pop();
      reverse(s);
      insertAtBottom(s,data);
      return;
   }
}

int main(){
   stack<int> s;
   int n;
   cout<<"\n Enter the number of element needed in the stack:";
   cin>>n;
   for(int i=0;i<n;i++){
      int t;
      cout<<"\n Enter the element : ";
      cin>>t;
      s.push(t);
```

```
        cout<<"\n The Top of the stack : "<<s.top();
    }
    reverse(s);
    cout<<"\n The stack tops after reversing:";
    while(s.size()!=0){
        cout<<"\n The stack Top : "<<s.top();
        s.pop();
    }
    return 0;
}
```