```
#include <iostream>
using namespace std;
template < class T> class Node{
public:
 T data;
 Node<T>* next;
 Node(int val){
    data=val;
    next=NULL;
template < class T> class Stacks{
public:
 Node<T>*current=NULL;
 void push(int put){
```

```
Node<T>* node=new
Node<T>(put);
    if(empty()){
      current=node;
      current->next=NULL;
    }else{
      node->next=current;
      current=node;
 void pop(){
    if(current==NULL){
      cout << "Stack is under-flow
"<<endl;
    }else{
      int data=current->data;
```

```
Node<T>*temp=current;
    current=current->next;
    cout<<temp->data<<endl;
    delete temp;
void clear(){
  current=NULL;
void display(){
  Node<T>*temp=current;
  if(!empty()){
    while(temp!=NULL){
       cout<<temp->data<<" "<<endl;
       temp=temp->next;
```

```
}else{
       cout << "stack is underflow
"<<endl;
  bool empty(){
    return current==NULL;
};
int main() {
  cout<<"1.Push"<<endl;
  cout << "2. Pop" << endl;
  cout << "3. Clear" << endl;
  cout<<"4.Exit"<<endl;
  bool ch= true;
  int choice, val;
```

```
Stacks<int>s;
while(ch){
  cout<<"Enter choice: ";
  cin>>choice;
  switch (choice){
     case 1:
       cout<<"Enter number: ";
       cin>>val;
       s.push(val);
       break;
     case 2:
       s.pop();
       break;
     case 3:
       s.clear();
       break;
```

```
case 4:
    ch= false;
    break;
    default:
        cout<<" Wrong choice "<<endl;
}
}</pre>
```