```
/*WAP to reverse a list using stack*/
#include <iostream>
#define MAXSIZE 8
using namespace std;
int stack[MAXSIZE];
int top = -1,data;
int isempty()
  if(top == -1)
    return 1;
  else
    return 0;
}
int isfull()
  if(top == MAXSIZE)
    return 1;
  else
    return 0;
void pop()
  cout<<"Reverse list is \n";</pre>
  while (!isempty())
  {
    data=stack[top];
    top--;
    cout<<data<<endl;
  }
}
void push()
  if (!isfull())
    cout<<"Enter data to push: ";</pre>
    cin>>data;
    top++;
```

```
stack[top]=data;
  }
  else
    cout<<"Could not insert data, Stack is full."<<endl;
  }
int main()
{
  int a;
  while(1)
    cout<<"Enter following keys to perform various operations.\n";
    cout<<"1 for push item in stack.\n";</pre>
    cout<<"2 reverse your list.\n";</pre>
    cin>>a;
    if (a==1)
      push();
    else if (a==2)
      pop();
    cout<<endl<<endl;
  }
  return 0;
}
/*WAP to reverse a list using stack*///or
#include<iostream>
#define max 10
using namespace std;
template<class T>
class Stack
  T data[max];
```

```
int top;
public:
  Stack():top(-1) {}
  void push(T value)
    if(top==max-1)
      cout<<"overflow"<<endl;
    else
      data[++top]=value;
  T pop()
  {
    if(top==-1)
      cout<<"underflow"<<endl;
      return -1;
    }
    else
      return data[top--];
  }
  void peek()
    if(top==-1)
      cout<<"underflow"<<endl;
    else
      cout<<data[top]<<" is in top"<<endl;</pre>
  }
  void display()
  {
```

```
cout<<"-----"<<endl;
    for(int i=top; i>-1; i--)
      cout<<data[i]<<endl;
    cout<<"-----"<<endl;
  }
};
int main()
  Stack<int> arr;
  int list[5];
  int revlist[5];
  cout<<"enter 5 integers for your list: ";
  for(int i=0; i<5; i++)
  {
    cin>>list[i];
    arr.push(list[i]);
  }
  for(int i=0; i<5; i++)
    revlist[i]=arr.pop();
  cout<<"its reverse is::"<<endl;
  for(int i=0; i<5; i++)
  {
    cout<<revlist[i]<<endl;</pre>
  return 0;
}
```