class node

{

int data;

node next;

node(int d)

{

data=d;

next=null;

}

}

class stack

{

node top=null;

boolean isempty()

{

return top==null;

}

void push(int d)

{

node nnode=new node(d);

if(top==null)

top=nnode;

else

{

nnode.next=top;

top=nnode;

}

}

int pop()

{

if(isempty())

{

System.out.println("Stack is underflow");

return -34;

}

else

{

int d=top.data;

top=top.next;

return d;

}

}

int peek()

{

if(isempty())

{

System.out.println("Stack is underflow");

return -34;

}

else

{

int d=top.data;

return d;

}

}

void display()

{

if(isempty())

{

System.out.println("Stack is underflow");

}

else

{

node temp=top;

while(temp!=null)

{

System.out.print(temp.data+" ");

temp=temp.next;

}

System.out.println("\n");

}

return;

}

}

public class Main

{

public static void main(String args[])

{

stack s1=new stack();

s1.push(90);

s1.push(34);

s1.push(45);

s1.push(21);

s1.push(45);

System.out.println(s1.peek());

s1.display();

s1.pop();

s1.display();

System.out.println(s1.peek());

s1.pop();

s1.pop();

s1.pop();

s1.pop();

s1.pop();

}

}