```java
import java.util.*;
interface stack{
void push(int data);
void pop();
void disp();
boolean isEmpty();
boolean isFull();
}
class isFull extends Exception{
public isFull(String s){
super(s);
}
}
class isEmpty extends Exception{
public isEmpty(String s){
super(s);
}
}
class inter implements stack{
int top=-1;
int elements[]=new int[5];
public boolean isFull(){
if(top==elements.length-1)
return true;
else
return false;
}
```

```java
public boolean isEmpty(){

if(top==-1)

return true;

else

return false;

}

public void push(int data){

try{

if(!isFull())

elements[++top]=data;

else

throw new isFull("Stack is Full");

}

catch(isFull e){

System.out.println("Exception : "+e);

}

}

public void pop(){

try{

if(!isEmpty())

top--;

else

throw new isEmpty("Stack is Empty");

}

catch(isEmpty e){

System.out.println("Exception : "+e);

}}
```

```java
public void disp(){

        try{

if(!isEmpty()){

for(int i=0;i<=top;i++){

System.out.println(elements[i]);

}

}

else

throw new isEmpty("Stack is Empty");

}

catch(isEmpty e){

System.out.println("Exception : "+e);

}}}

class Main{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

inter i=new inter();

int ch,data;

System.out.println("Enter your choice : \n1.Push\n2.Pop\n3.Display\n4.Exit\n");

ch=s.nextInt();

while(ch<4){

switch(ch){

case 1:

System.out.println("Enter any element\n");

data=s.nextInt();

i.push(data);
```

break;

case 2:

i.pop();

break;

case 3:

i.disp();

break;

}

System.out.println("Enter your choice : \n1.Push\n2.Pop\n3.Display\n4.Exit");

ch=s.nextInt();

}}}

```java
71    Enter i=new inter();
72    int ch,data;
73    System.out.println("Enter your choice : \n1.Push\n2.Pop\n3
          .Display\n4.Exit\n");
74    ch=s.nextInt();
75    while(ch<4){
76    switch(ch){
77    case 1:
78        System.out.println("Enter any element\n");
79        data=s.nextInt();
80        i.push(data);
81        break;
82    case 2:
83        i.pop();
84        break;
85    case 3:
86        i.disp();
87        break;
88  }
89  System.out.println("Enter your choice : \n1.Push\n2.Pop\n3
          .Display\n4.Exit");
90    ch=s.nextInt();
91  }}}
```

Output

```
java -cp /tmp/zBTQYfpdYX Main
Enter your choice :
1.Push
2.Pop
3.Display
4.Exit

1
Enter any element

5
Enter your choice :
1.Push
2.Pop
3.Display
4.Exit1
Enter any element

6
Enter your choice :
1.Push
2.Pop
```