```
import java.io.*;
import java.util.*;
interface stackoperation
public void push(int i);
public void pop();
class Astack implements stackoperation
int stack[]=new int[5];
int to p=-1;
int i;
public void push(int item)
if(top>=4)
System.out.println("Stack is full");
else
top=top+1;
stack[top]=item;
System.out.println("Item pushed: "+stack[top]);
public void pop()
if(top<0)
System.out.println("Stack is empty");
else
System.out.println("Item popped: "+stack[top]);
top=top-1;
public void display()
if(top<0)
System.out.println("No Element in stack");
System.out.println("The elements are: ");
for(i=0;i<=top;i++)
System.out.println(stack[i]);
}
```

```
class teststack
public static void main(String args[])
int ch.c;
int i;
int j=1;
Astack s=new Astack();
Scanner in=new Scanner(System.in);
while(j>0)
System.out.println("ARRAY STACK");
System.out.println("1.Push\n2.Pop\n3.Display\n4.Exit\n");
System.out.println("Enter ur choice:");
ch=in.nextInt();
switch(ch)
case 1:
System.out.println("Enter the value to push:");
i=in.nextInt();
s.push(i);
break:
case 2:
s.pop();
break;
case 3:
s.display();
break;
case 4:
return:
}
}
```

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS E:\STUDY MATERIALS\SEMESTER 5\Lab\Oops Java\ex6_stack adt> javac stackoperation.java

PS E:\STUDY MATERIALS\SEMESTER 5\Lab\Oops Java\ex6_stack adt> java teststack

ARRAY STACK

1. Push
2. Pop
3. Display
4. Exit

Enter ur choice:
1
Enter the value to push:
5
ARRAY STACK
1. Push
2. Pop
3. Display
4. Exit

Enter the value to push:
5
Enter ur choice:
1
Enter the value to push:
5
ARRAY STACK
1. Push
2. Pop
3. Display
4. Exit

Enter ur choice:
3
The elements are:
5
ARRAY STACK
```

