```
import java.util.Scanner;
public class Stack
{
int S [];
int top ;
Stack ()
{
S = new int [ 10 ];
for ( int i = 0 ;i<= 9 ;i++)
S [i]= 0 ;
top = - 1 ;
}
void Push ()
{
int element ;
if (top== 9 )
System . out . println ( "Stack at full capacity, cannot insert any
more elements." );
else
{
Scanner sc = new Scanner ( System . in );
System . out . println ( "Enter Element to Insert into Stack." );
element = sc . nextInt ();
S [++top]=element;
}
}
void Pop ()
{
if (top==- 1 )
System . out . println ( "Stack is Empty, cannot delete any more
elements." );
else
{
System . out . println ( "The deleted element from the Stackis:" + S
[top--]);

}
}
void Display ()
{
if (top==- 1 )
System . out . println ( "Stack is Empty, cannot delete any more
elements." );
else
{
System . out . println ( "Contents of the Stack are:" );
//System.out.println();
for ( int i =0;i<=top ;i++)
System . out . println ( S [i]);
}
}
public static void main ( String [] args )
{Stack s=new Stack();
 int choice;
boolean flag=true;
System.out.println("enter the operation that u want to perform on the
```

```
stack");
Scanner sc=new Scanner(System.in);
while(flag)
{System.out.println("1>insert 2>delete 3>display 4>exit");
choice=sc.nextInt();
switch(choice)
{
case 1 : s.Push();
break;
case 2:s.Pop();
break;
case 3:s.Display();
break;
case 4:flag=false;

default:System.out.println("wrong input");
}

}
}
}
```