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**Roll No:49**

**Batch:mca b**

**Date:29-03-2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 20**

**Aim**

Program to create a generic stack and do the Push and Pop operations.

**Procedure**

import java.util.\*;

class operations{

public void operation()

{

int top =-1,ch,n,e;

Scanner inp = new Scanner(System.in);

System.out.println("Enter Size of Stack");

n = inp.nextInt();

int size=n-1;

int[] arr = new int[n];

do {

System.out.println("\n=============\n MENU : \n1.push \n2.pop \n3.Display \n4.Exit \n=============");

System.out.println("Enter your choice");

ch = inp.nextInt();

switch(ch)

{

case 1 :

if(top == size)

{

System.out.println(" \*\*\* Stack is Full \*\*\* ");

}

else

{

System.out.println("Enter Element : ");

e = inp.nextInt();

top++;

arr[top] =e;

}

break;

case 2 :

if(top == -1)

{

System.out.println("\n\*\*\* Stack is empty \*\*\* ");

}

else

{

System.out.println("\n"+ arr[top] + " is removed ");

top--;

}

break;

case 3 :

if(top == -1)

{

System.out.println(" \*\*\* Stack is empty \*\*\*");

}

else

{

System.out.println("\n\*\*\* Stack : \*\*\*\n");

for(int i=top;i>=0;i--)

{

System.out.println(" " +arr[i]);

System.out.println("-----");

}

}

break;

case 4 :

System.exit(0);

default : System.out.println("Invalid Choice");

}

}while(ch !=4);

}

}

public class Stackopertaion{

public static void main(String[] args) {

operations obj = new operations();

obj.operation();

}

}

**Output Screenshot**

