**Name: Keerthana P**

**Roll No:12**

**Batch:S2 RMCA-B**

**Date:31/05/2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 25**

**Aim**

Program to performe stack operation..

**Procedure**

import java.util.\*;

public class Stack{

public static void main(String args[]){

int choice,top=-1,size=0,data=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter the size of the stack");

size=sc.nextInt();

int arr[]=new int[size];

while(true){

System.out.println("Please choose a valid option");

System.out.println("1.PUSH");

System.out.println("2.POP");

System.out.println("3.View");

System.out.println("4.Exit");

choice=sc.nextInt();

switch(choice){

case 1:

if(top==size){

System.out.println("Stack overflow");

}

else{

top++;

System.out.println("Enter element you want to insert");

data=sc.nextInt();

arr[top]=data;

System.out.println("Insertion Success");

}

break;

case 2:

if(top==-1)

{

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

}

else{

System.out.println("Pop opertion Sucess");

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

top--;

}

break;

case 3:

if(top==-1){

System.out.println("Stack Underflow");

}

else{

System.out.println("Stack elements are:");

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

{

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

}

}

break;

case 4:

System.exit(0);

}

}

}

}

**Output Screenshot**



