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**Batch:mca b**

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**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 21**

**Aim**

Program to performe stack operation..

**Procedure**

import java.util.\*;

public class stack

{

public static void main(String args[])

{

int choice;

int top=-1;

int size=0;

int 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 the elements u want to insert");

data=sc.nextInt();

arr[top]=data;

System.out.println("insertation success..");

}

break;

case 2:

if(top==-1)

{

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

}

else

{

System.out.println("pop operation success");

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

top--;

}

break;

case 3:

if(top==-1)

{

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

}

else

{

System.out.println("the stack elements are:");

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

{

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

}

}

break;

case 4:

System.exit(0);

}

}

}

}

**Output Screenshot**



