/\*Name : Nilesh Pandit

Roll No.:A-22

Expt\_Name:Stack Using Java

Expt\_No.:3

\*/

import java.util.Scanner;

import java.io.\*;

class Stack

{

static int arr[]=new int[5];

static int ch;

static int i,j;

static Scanner sc=new Scanner(System.in);

public void push()

{

for(i=0;i<5;i++)

{

System.out.println("\nEnter no. in the stack:\n");

arr[i]=sc.nextInt();

}

i--;

}

public void display()

{

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

if(i<0)

System.out.println("Stack is Empty:");

for(int j=0;j<=i;j++)

{

System.out.println(arr[j]+"\n");

}

}

public void pop()

{

System.out.println("\n"+arr[i] +" is poped");

i--;

for(j=0;j<=i;j++)

{

System.out.println(arr[j]+"\n");

}

}

public static void main(String args[]){

Stack obj=new Stack();

while(true)

{

System.out.println("\n1.Push\n2.Pop\n3.Display\n4.Exit\n");

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

ch=sc.nextInt();

switch(ch)

{

case 1:

obj.push();

break;

case 2:

obj.pop();

break;

case 3:

obj.display();

break;

case 4:

System.exit(0);

break;

}

}

}

}

**Output**:

C:\Users\Nilesh\Desktop\java\_pgm>javac Stack.java

C:\Users\Nilesh\Desktop\java\_pgm>java Stack

1.Push

2.Pop

3.Display

4.Exit

Enter your choice

1

Enter no. in the stack:

12

Enter no. in the stack:

23

Enter no. in the stack:

34

Enter no. in the stack:

45

Enter no. in the stack:

56

1.Push

2.Pop

3.Display

4.Exit

Enter your choice

3

Stack Elements are:

12

23

34

45

56

1.Push

2.Pop

3.Display

4.Exit

Enter your choice

2

56 is poped

12

23

34

45

1.Push

2.Pop

3.Display

4.Exit

Enter your choice

2

45 is poped

12

23

34

1.Push

2.Pop

3.Display

4.Exit

Enter your choice

3

Stack Elements are:

12

23

34

1.Push

2.Pop

3.Display

4.Exit

Enter your choice

4