**Experiment No. 7**

**Code:**

import java.io.\*;

import java.util.\*;

public class BullyA

{

static int n;

static int pro[] = new int[100];

static int sta[] = new int[100];

static int co;

public static void main(String args[])

{

System.out.println("Enter the number of process");

Scanner sc = new Scanner(System.in);

n = sc.nextInt();

int i,j,c,cl=1;

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

{

sta[i] = 1;

pro[i] = i;

}

boolean choice = true;

int ch;

do

{

System.out.println("Enter Your Choice");

System.out.println("1. Crash Process");

System.out.println("2. Recover Process");

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

ch = sc.nextInt();

switch(ch)

{

case 1:

System.out.println("Enter the process number");

c = sc.nextInt();

sta[c-1]=0;

cl = 1;

break;

case 2:

System.out.println("Enter the process number");

c = sc.nextInt();

sta[c-1]=1;

cl = 1;

break;

case 3:

choice = false;

cl = 0;

break;

}

if(cl == 1)

{

System.out.println("Which process will initiate election?");

int ele = sc.nextInt();

elect(ele);

}

System.out.println("Final coordinator is "+co);

}while(choice);

}

static void elect(int ele)

{

ele = ele-1;

co = ele+1;

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

{

if(pro[ele]<pro[i])

{

System.out.println("Election message is sent from "+(ele+1)+" to "+(i+1));

if(sta[i]==1)

System.out.println("Ok message is sent from "+(i+1)+" to "+(ele+1));

if(sta[i]==1)

elect(i+1);

}

}

}

}

**Output:**

