Code

Bully.java

```
import java.io.*;
import java.util.Scanner;
class Bully{
  static int n;
  static int pro[] = new int[100];
  static int sta[] = new int[100];
  static int co;
  public static void main(String args[])throws IOException
     System.out.println("Enter the number of process");
     Scanner in = new Scanner(System.in);
     n = in.nextInt();
     int i,j,k,l,m;
     for(i=0;i< n;i++)
       System.out.println("For process "+(i+1)+":");
       System.out.println("Status:");
       sta[i]=in.nextInt();
       System.out.println("Priority");
       pro[i] = in.nextInt();
     }
     System.out.println("Which process will initiate election?");
     int ele = in.nextInt();
     elect(ele);
     System.out.println("Final coordinator is "+co);
  static void elect(int ele)
     ele = ele-1;
     co = ele+1;
     for(int i=0;i<n;i++)
       if(pro[ele]<pro[i])</pre>
          System.out.println("Election message is sent from "+(ele+1)+" to "+(i+1));
          if(sta[i]==1)
             elect(i+1);
  }
```

Output

```
🕻 Applications Places 🖸 Terminal
  • • • +
                                                                                        slowgamer@adnan-System-Prod
slowgamer@adnan-System-Product-Name:~/Desktop/College/sem8/DC/exp_5$ javac Bully.java
slowgamer@adnan-System-Product-Name:~/Desktop/College/sem8/DC/exp_5$ java Bully
Enter the number of process
For process 1:
Status:
Priority
For process 2:
Status:
Priority
For process 3:
Status:
Priority
For process 4:
Status:
Priority
For process 5:
Status:
Priority
Which process will initiate election?
Election message is sent from 2 to 1
Election message is sent from 2 to 3
Election message is sent from 3 to 5
Election message is sent from 2 to 5
Final coordinator is 5
```