```
Bully Algorithm
                                                                                                                             Create processes
Display processes
PS E:\DS_Practicals\_6_Bully_&_Ring\one> java Bully.java
                                                                                                                             Up a process
Bully Algorithm

    Down a process
    Run election algorithm

    Create processes
    Display processes

                                                                                                                        6. Exit Program
Enter your choice: 5
3. Up a process4. Down a process5. Run election algorithm
                                                                                                                       Enter your choice: 5
Enter the process number to start election: 1
Process 1 started election.
Election message sent from P1 to P2
Election message sent from P1 to P3
Election message sent from P1 to P4
New Coordinator elected: P4
      Exit Program
Enter your choice: 1
Enter the number of processes: 5
Creating processes...
P1 created
P2 created
P3 created
                                                                                                                       P1 is up
P2 is up
P3 is up
P4 is up
P4 created
P5 created
Process P5 is the coordinator
                                                                                                                        P5 is down
Bully Algorithm
                                                                                                                         Current Coordinator: P4
1. Create processes
2. Display processes
3. Up a process
                                                                                                                        Bully Algorithm
                                                                                                                        1. Create processes
2. Display processes
4. Down a process
5. Run election algorithm
6. Exit Program
Enter your choice: 2
P1 is up
P2 is up
                                                                                                                        Up a process

    Op a process
    Down a process
    Run election algorithm

                                                                                                                             Exit Program
P3 is up
P4 is up
                                                                                                                       Enter your choice: 4
Enter the process number to down: 3
Process 3 is down.
P5 is up
Current Coordinator: P5
Bully Algorithm
                                                                                                                        Bully Algorithm
1. Create processes
2. Display processes
3. Up a process

    Create processes

                                                                                                                        Display processes
                                                                                                                        Up a process

    Down a process
    Run election algorithm

    Down a process
    Run election algorithm

6. Exit Program
Enter your choice: 4
Enter the process number to down: 5
Process 5 is down.
                                                                                                                             Exit Program
                                                                                                                       Enter your choice: 4
Enter the process number to down: 4
```

Bully Algorithm Create processes Display processes Up a process 4. Down a process 5. Run election algorithm 6. Exit Program Enter your choice: 5 Enter the process number to start election: 2 Process 2 started election. New Coordinator elected: P2 P1 is up P2 is up P3 is down P4 is down P5 is down Current Coordinator: P2 **Bully Algorithm** 1. Create processes Display processes Up a process 4. Down a process 5. Run election algorithm 6. Exit Program Enter your choice: 2 P1 is up P2 is up P3 is down P4 is down P5 is down Current Coordinator: P2 **Bully Algorithm** 1. Create processes 2. Display processes Up a process Down a process Run election algorithm

Exit Program

```
Bully Algorithm
1. Create processes
2. Display processes
3. Up a process

    Down a process
    Run election algorithm

6. Exit Program
Enter your choice: 3
Enter the process number to up: 5
Process 5 is now up.
Bully Algorithm
1. Create processes
2. Display processes
3. Up a process
4. Down a process5. Run election algorithm
6. Exit Program
Enter your choice: 5
Enter the process number to start election: 2
Process 2 started election.
Election message sent from P2 to P5
New Coordinator elected: P5
P1 is up
P2 is up
P3 is down
P4 is down
P5 is up
Current Coordinator: P5
Bully Algorithm

    Create processes

2. Display processes
3. Up a process

    Down a process
    Run election algorithm

6. Exit Program
Enter your choice: 6
PS E:\DS_Practicals\_6_Bully_&_Ring\one>
```

```
PS E:\DS_Practicals\_6_Bully_&_Ring\one> java Ring.java
Ring Algorithm
                                                                                                           Ring Algorithm

    Create processes
    Display processes
    Up a process

                                                                                                          1. Create processes
2. Display processes
3. Up a process
4. Down a process
5. Run election algorithm
4. Down a process
5. Run election algorithm
6. Exit Program
                                                                                                           6. Exit Program
Enter your choice: 1
Enter the total number of processes: 5
P1 created.
                                                                                                           Enter your choice: 4
Enter the process to down: 2
Process P2 is down.
P2 created.
P3 created.
                                                                                                           Ring Algorithm
P4 created.
                                                                                                          Ring Algorithm

1. Create processes

2. Display processes

3. Up a process

4. Down a process

5. Run election algorithm

6. Exit Program

Enter your choice: 5

Enter the process which will initiate election: 4

Process P4 started election.

Process P1 sending the following list: [ 4 1 ]
P5 created.
P5 is the initial coordinator.
Ring Algorithm

    Create processes
    Display processes
    Up a process

4. Down a process
5. Run election algorithm
6. Exit Program
                                                                                                           Process P1 sending the following list: [ 4 1 ]
Process P3 sending the following list: [ 4 1 3 ]
Process P4 has declared P4 as the new coordinator.
Enter your choice: 2
P1 is up.
P2 is up.
                                                                                                           P1 is up.
P2 is down.
P3 is up.
P3 is up.
P4 is up.
P5 is up.
Current Coordinator: P5
                                                                                                           P4 is up.
                                                                                                           P5 is down.
                                                                                                           Current Coordinator: P4
Ring Algorithm

    Create processes
    Display processes
    Up a process

                                                                                                           Ring Algorithm

    Create processes
    Display processes
    Up a process

    Down a process
    Run election algorithm

                                                                                                           4. Down a process5. Run election algorithm
6. Exit Program
Enter your choice: 4
Enter the process to down: 5
Process P5 is down.
                                                                                                           6. Exit Program
                                                                                                           Enter your choice: 3
Ring Algorithm
 1. Create processes
 2. Display processes
 3. Up a process
4. Down a process
5. Run election algorithm
6. Exit Program
Enter your choice: 3
Enter the process to up: 5
 Process P5 is now up.
 Ring Algorithm
1. Create processes
2. Display processes
3. Up a process
4. Down a process
5. Run election algorithm
6. Exit Program
Enter your choice: 5
Enter the process which will initiate election: 1
Process P1 started election.
Process P3 search etection.

Process P3 sending the following list: [ 1 3 ]

Process P4 sending the following list: [ 1 3 4 ]

Process P5 sending the following list: [ 1 3 4 5 ]

Process P1 has declared P5 as the new coordinator.
```

Ring Algorithm 1. Create processes

P5 is up. Current Coordinator: P5

P1 is up. P2 is down. P3 is up. P4 is up.

2. Display processes

3. Up a process

4. Down a process

5. Run election algorithm

6. Exit Program

Enter your choice: 6
PS E:\DS_Practicals_6_Bully_&_Ring\one>