

```

Windows PowerShell
PS E:\DS_Practicals\_6_Bully_&Ring\one> java Bully.java

Bully 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: 1
Enter the number of processes: 5
Creating processes...
P1 created
P2 created
P3 created
P4 created
P5 created
Process P5 is the coordinator

Bully 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: 2
P1 is up
P2 is up
P3 is up
P4 is up
P5 is up
Current Coordinator: P5

Bully 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: 4
Enter the process number to down: 5
Process 5 is down.

```

```

Bully 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 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
P1 is up
P2 is up
P3 is up
P4 is up
P5 is down
Current Coordinator: P4

Bully 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: 4
Enter the process number to down: 3
Process 3 is down.

Bully 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: 4
Enter the process number to down: 4

```

```

Bully 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 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
2. Display processes
3. 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
3. Up a process
4. Down a process
5. Run election algorithm
6. Exit Program

```

```

Bully 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 number to up: 5
Process 5 is now up.

Bully 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 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
1. Create processes
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>

```

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

```
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: 1
Enter the total number of processes: 5
P1 created.
P2 created.
P3 created.
P4 created.
P5 created.
P5 is the initial coordinator.
```

```
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: 2
P1 is up.
P2 is up.
P3 is up.
P4 is up.
P5 is up.
Current Coordinator: P5
```

```
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: 4
Enter the process to down: 5
Process P5 is down.
```

```
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: 4
Enter the process to down: 2
Process P2 is down.
```

```
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 ]
Process P3 sending the following list: [ 4 1 3 ]
Process P4 has declared P4 as the new coordinator.
P1 is up.
P2 is down.
P3 is up.
P4 is up.
P5 is down.
Current Coordinator: P4
```

```
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
```

```
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 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.
P1 is up.
P2 is down.
P3 is up.
P4 is up.
P5 is up.
Current Coordinator: P5
```

```
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: 6
PS E:\DS_Practicals\_6_Bully_&Ring\one>
```