

## Experiment\_7\_Election

### 1. election.py

```
def process_Pool(id,message_case=0):
    nodes_list = [1, 2, 3, 4,5]
    if message_case==1:
        new_list=[]
        for x in nodes_list:
            if id<x:
                new_list.append(x)

        if id==len(nodes_list):
            return None

        return new_list
    if message_case==2 and id is not 1:
        return [nodes_list[int(id)-2] ]
    if message_case==3:
        del nodes_list[len(nodes_list)-1]
        return nodes_list

def sending_data(recepients,message):
    if recepients is not None:
        for node in recepients:
            print(message+" sent to Node"+str(node))

def node(myId):
    sending_list=process_Pool(myId,1)
    if sending_list is None:
        sending_data(process_Pool(myId,3),"I've won")
    else :
        sending_data(sending_list,"Election")
    sending_data(process_Pool(myId,2),"OK")
```

node(1)  
node(2)  
node(3)  
node(4)  
node(5)

## Output

```
pi@raspberrypi: ~  
File Edit Tabs Help  
pi@raspberrypi:~/Desktop/DC/Experiment_7_Election $ python3 election.py  
Election sent to Node2  
Election sent to Node3  
Election sent to Node4  
Election sent to Node5  
Election sent to Node3  
Election sent to Node4  
Election sent to Node5  
OK sent to Node1  
Election sent to Node4  
Election sent to Node5  
OK sent to Node2  
Election sent to Node5  
OK sent to Node3  
I've won sent to Node1  
I've won sent to Node2  
I've won sent to Node3  
I've won sent to Node4  
OK sent to Node4  
pi@raspberrypi:~/Desktop/DC/Experiment_7_Election $
```