```
'''
Created on 29 Oct 2014

@author: bob
'''
import multiprocessing
import scipy
from workers.worker2 import Worker2 as worker2
from workers.workerSimple import workerSimple as workerSimple
from workers.worker_nls import WorkerNLS
import matplotlib.pyplot as plot
from test import plottest


if __name__ == '__main__':
    manager = multiprocessing.Manager()
    return_dict = manager.dict()
    jobs = []
    nb_ofLoopsPerProces = 5
    nb_Proces = 8
    Ksqr = scipy.linspace(1, 500,  nb_ofLoopsPerProces*nb_Proces).tolist()
    sigma = scipy.linspace(1, 1.5, 1).tolist()
    g = scipy.linspace(-1, -1.5, 1).tolist()
    n = 10
    y0=[0.,1.];
    t0=0
    tend=1
    h=0.01
    for i in range(nb_Proces):
        name = 'Worker %s'%(i+1)
        filename = 'File%s.txt'%(i+1)
        eigenSys = workerSimple(Ksqr[nb_ofLoopsPerProces*i:nb_ofLoopsPerPr
        p = multiprocessing.Process(target=eigenSys.task,args=(i+1,return_
        jobs.append(p)
        p.start()
    i = 1;
    for p in jobs:
        p.join()
        print 'Job %s finished, from %s'% (i,len(jobs))
        i+=1
    result = scipy.zeros((nb_ofLoopsPerProces*nb_Proces,n+3))
    print return_dict
    for i in range(nb_Proces):
        result[i*nb_ofLoopsPerProces:(i+1)*nb_ofLoopsPerProces,:] =  retur
    ax1 = plot.subplot2grid((1,2), (0,0), colspan=1)
    ax7 = plot.subplot2grid((1,2), (0, 1), rowspan=1,colspan=1)

    ax1.plot(result[:,0],result[:,3])
```

```
49      ax1.plot(result[:,0],result[:,4])
50      ax1.plot(result[:,0],result[:,5])
51      ax1.plot(result[:,0],result[:,6])
52      ax1.plot(result[:,0],result[:,7])
53      ax1.plot(result[:,0],result[:,8])
54      ax1.plot(result[:,0],result[:,9])
55      ax1.plot(result[:,0],result[:,10])
56      ax1.plot(result[:,0],result[:,11])
57      ax1.plot(result[:,0],result[:,12])
58      plottest.PlotWave(data=result,fig = ax7)
59      plot.savefig('../../plot/mainResult.eps')
60      plot.show()
61
62
63
64
65
66
```