```
import pyalps
import matplotlib.pyplot as plt
import pyalps.plot

#prepare the input parameters
#skip this part if you already ran the simulation from the command line
parms = []
for t in [0.05, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.25, 1.5, 1.75, 2.0]:
    parms.append(
        {
          'LATTICE'        : "chain lattice",
          'T'              : t,
          'J'              : -1 ,
          'THERMALIZATION' : 10000,
          'SWEEPS'         : 500000,
          'UPDATE'         : "cluster",
          'MODEL'          : "Heisenberg",
          'L'              : 60
        }
    )

#write the input file and run the simulation
#skip this part if you already ran the simulation from the command line
input_file = pyalps.writeInputFiles('parm2a',parms)
```