

```

&CONTROL
calculation      = 'scf'
pseudo_dir      = '../pseudo/'
outdir           = '../tmp/'
prefix           = 'gr'
/
&SYSTEM
ibrav            = 4
a                = 2.4639055825
c                = 15.0
nat              = 2
ntyp             = 1
occupations      = 'smearing'
smearing         = 'mv'
degauss          = 0.02
ecutwfc         = 80
assume_isolated = '2D'
/
&ELECTRONS
mixing_beta      = 0.7
conv_thr         = 1.0D-6
/
ATOMIC_SPECIES
C 12.0107 C.pbe-n-rrkjus_psl.0.1.UPF
ATOMIC_POSITIONS (crystal)
C 0.3333333333 0.6666666666 0.5000000000
C 0.6666666666 0.3333333333 0.5000000000
K_POINTS (automatic)
12 12 1 0 0 0

```

```

phonon calc.
&INPUTPH
outdir = '../tmp/'
prefix = 'gr'
tr2_ph = 1d-14
ldisp  = .true.
nq1    = 6
nq2    = 6
nq3    = 1
fildyn = 'gr.dyn'
/

```