

```

PROGRAM eton
*****
* Conversion of dielectric functions to optical constant.          *
* the standard input file must have the format x eps1 eps2      *
* The outputfile comes as: x n1 n2                               *
*****
REAL X(100000),e1,e2
complex epsil(100000),cn
INTEGER I,mm
mm=100000
do 10 i=1,mm
  READ(*,*,END=11) X(i),e1,e2
  epsil(i)=cmplx(e1,e2)
10 continue
11 mm=i-1
do 25 i=1,mm
  cn=csqrt((epsil(i)))
  write(*,*) x(i),real(cn),aimag(cn)
25 continue
END

```