PROGRAM hw8

IMPLICIT NONE

REAL,DIMENSION(1:1000)::array1

REAL,DIMENSION(1:1000,1:1000)::array2

INTEGER::i

INTEGER::j

INTEGER::k

INTEGER::ierror

CHARACTER(len=15)::filename

INTEGER::row

INTEGER::col

REAL::average\_row

REAL::avreage\_col

REAL::sum\_row=0

REAL::sum\_col=0

open(8,FILE='kkbox.txt',STATUS='OLD',ACTION='READ',IOSTAT=ierror)

IF(ierror==0) THEN

READ(8,\*,IOSTAT=ierror)array1

IF(ierror<=0) THEN

row=array1(1)

col=array1(2)

k=3

WRITE(\*,\*)"The array's row is ",row,"column is ",col

DO i=1,row

DO j=1,col

array2(i,j)=array1(k)

k=k+1

END DO

END DO

ELSE

WRITE(\*,\*)'THE INPUT DATA HAS INVALID VALUE.'

END IF

WRITE(\*,100)((array2(i,j),j=1,col),i=1,row)

100 FORMAT(7F6.1)

DO i=1,row

sum\_row=0

DO j=1,col

sum\_row=sum\_row+array2(i,j)

END DO

WRITE(\*,\*)'the sum of',i,'row is',sum\_row

WRITE(\*,\*)'the avreage of',i,'row is',sum\_row/real(col)

END DO

DO j=1,col

sum\_col=0

DO i=1,row

sum\_col=sum\_col+array2(i,j)

END DO

WRITE(\*,\*)'the sum of',j,'col is',sum\_col

WRITE(\*,\*)'the avreage of',j,'col is',sum\_col/real(row)

END DO

ELSE

WRITE(\*,\*)'OPEN FAIL'

END IF

close(8)

STOP

end program

這次的作業也是琢磨在open的觀念，其餘的只要小心就沒問題了。