! cos(x)=1-(x\*\*2/2!)+(x\*\*4/4!)-(x\*\*6/6!)+...

program projecos

integer a,b,c,number

double precision radian,y,r,sum,degree,fact

character\*3 answer

2 print \*,'1;Please enter number of serie.'

read (\*,'(i3)') number

print \*,'2;Please enter a value for degree.'

read (\*,\*) degree

radian=(degree\*3.141593)/180

y=cos(radian)

a=0

b=0

c=1

fact=1

sum=1

do i=2,number

a=a+2

b=(2\*i)-2

c=-c

do j=1,b

fact=fact\*j

enddo

r=(radian\*\*a)/fact

sum=sum+(r\*c)

enddo

write(\*,\*) 'Number of serie =',number

write(\*,\*) 'Degree =',degree,'in Radian =',radian

write (\*,'(f15.9)') y

write (\*,'(f15.9)') sum

print \*,'Do you want to do again, Please enter Yes or No?'

read \*,answer

if ( answer=='No' ) then

goto 1

else

goto 2

endif

1 endprogram