

! Danny's first fortran program

```
program Danny
  implicit none
  real :: a, b
  real :: area, perimeter

  ! read parameters
  print *, "input a:"
  read *, a

  print *, 'input b:'
  read *, b

  ! rectangle rules
  area = a * b
  perimeter = 2 * ( a + b )

  print *, "rectangle area = ", area
  print *, "rectangle perimeter = ", perimeter

  ! right triangle rules
  area = a * b / 2
  perimeter = a + b + sqrt( a**2 + b**2 )

  print *, "triangle area = ", area
  print *, "triangle perimeter = ", perimeter
```

end program Danny

```
!
! Muntz-Szasz:danny dantopa$ date
! Thu Dec 31 14:52:40 MST 2015
! Muntz-Szasz:danny dantopa$ pwd
! /Users/dantopa/Box Sync/fortran/projects/danny
! Muntz-Szasz:danny dantopa$ gfortran Danny.f08
! Muntz-Szasz:danny dantopa$ ./a.out
! input a:
! 2
! input b:
! 3
! rectangle area =    6.00000000
! rectangle perimeter =    10.0000000
! triangle area =    3.00000000
! triangle perimeter =    8.60555077
```