subroutine test\_sub(k)

implicit none

!===============================

! This is a test subroutine

!===============================

integer, intent(in) :: k

double precision, allocatable :: a(:)

integer, parameter :: nmax=10

integer :: i

allocate (a(nmax))

do i=1,nmax

a(i) = dble(i)\*5.d0

enddo

print \*, 'Hello world'

write (\*,\*) a(:)

end subroutine test\_sub