



Data types:

```
type atom
! Setting the element in this project only C (carbon) or H (hydrogen)
character(1) :: element = 'E'
! The xyz coordinates of the atom in the molecule
real(realkind) :: x, y, z = 0.
end type

type bond
! Setting the indices of the atoms that are bonding
integer :: link(2) = 0
! Setting the type of bond in this project only CC or CH
character(2) :: type = 'EE'
! Setting the calculated distance of the bond in A
real(realkind) :: length = 0.
end type
```