INVALID PARAMETERS

Our pv function works on a vector of future values, not data frames, lists, or matrices. Let's add a warning in case a user tries to feed it a non-vector.

```
fv_l <- list(fv1 = 800,
             fv2 = 900,
             fv3 = 1100)


pv(fv_l, 0.08)
Error in pv(fv_l, 0.08) : FV must be an
atomic vector
```

- Now when we execute pv on a non-atomic vector we get an error output

INVALID PARAMETERS

Now let's add tests for the type of class input.

```
pv <- function(FV, r, n = 5) {

  if(!is.atomic(FV)) {
    stop('FV must be an atomic vector')
  }

  if(!is.numeric(FV) | !is.numeric(r) | !is.numeric(n)){
    stop('This function only works for numeric inputs!\n',
         'You have provided objects of the following classes:\n',
         'FV: ', class(FV), '\n',
         'r: ', class(r), '\n',
         'n: ', class(n))
  }

  present_value <- FV / (1 + r)^n
  round(present_value, 2)
}
```

Now we test for

- data type
- argument class

and both of these will provide warnings if violated