Error Logging in R

Using Purr

- Found some useful tools to test functions in R.
- Came across some good links as well linked to this.
- This '{R-bloggers}' link has some good information on this.
- I think I am also liking the chronicler package by '{Bruno Rodrigues}'.

```
#Let's use my package normfluodbf
library(normfluodbf)
fpath <- system.file("extdata", "dat_2.dat", package = "normfluodbf", mustWork = TRUE)

#Using safely
safe_log = purrr::safely(normfluodat)
a = safe_log(dat=fpath, tnp = 3, cycles = 40)

## The user is advised to input a character vector of rows used
#Using quietly
quiet_log = purrr::quietly(normfluodat)
b = quiet_log(dat=fpath, tnp = 3, cycles = 40)</pre>
```

Based on the results I clearly see that quietly captures the message while safely fails to capture th

Using TryCatch

• Check out the function I cooked up based on some information from '{Datatechnotes}'. That is a good way to log error files locally and have them in hand for debugging.

Using Chronicler

• Seems to have some benchmarking abilities as well. Did not dive deep into it but like the way it works so far.

```
#get just the values
chronicler::pick(a,'value')
## [1] 1.000000 1.414214 1.732051 2.000000 2.236068
chronicler::pick(a,'log_df')
## # A tibble: 1 x 11
## ops_number outcome
                         `function` arguments message start_time
      <int> <chr> <chr> <chr> <chr>
##
## 1
            1 OK! Success sqrt
                                              NA
                                                     2023-12-25 15:05:35
## # i 5 more variables: end_time <dttm>, run_time <drtn>, g <list>,
## # diff_obj <list>, lag_outcome <chr>
#get the log and this gives run time
chronicler::read_log(a)
## [1] "Complete log:"
## [2] "OK! sqrt() ran successfully at 2023-12-25 15:05:35.699391"
## [3] "Total running time: 0.000649213790893555 secs"
```