EDS 230/ESM232: Assignment 2

Roshni Katrak-Adefowora, Scout Leonard, Nikole Vannest

04/08/2022

1 Read in Climate Data

```
climate_data <- read_delim(here("data", "clim.txt")) %>%
  rename(date = day,
         day = month,
         month = year,
         year = wy)
```

```
## Rows: 7920 Columns: 9
```

```
## -- Column specification --------------------------------------------------------
## Delimiter: " "
## chr  (1): wyd
## dbl  (7): D, month, year, wy, tmax_c, tmin_c, precip
## date (1): day
```

```
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

2 Subset Climate Data

```
#filter climate dataset for february minimum temperature
feb_min_temps <- climate_data %>%
  filter(month == 2) %>%
  group_by(year) %>%
  summarise(feb_min_temp_c = min(tmin_c))
```

```
## Warning: One or more parsing issues, see `problems()` for details
```

```
#filter climate dataset for february precipitation
jan_precip <- climate_data %>%
  filter(month == 1) %>%
  group_by(year) %>%
  summarise(total_jan_precip_mm = sum(precip))
```

3 Summarize Results

```
years_list <- jan_precip$year
anomaly <- c()
```

```
for (i in 1:length(years_list)){

  anomaly[i] <- almond_yield(precip = jan_precip$total_jan_precip_mm[i], temp = feb_min_temps$feb_min_t

}
```

4 Summary of Findings