#Notes:check if elements of list exists

#I ran a test where I removed an element of the output and checked to see if that output is the appropriate type. Code commented out below.

#When I ran testthat, it gave me a failure for this check. Thus, I don't think we need to check if our desired output exists in addition to checking its type.

#I looked through testthat and couldn't find any function that checks to see if an object exists.

#Please let me know if you want me to look more into this, it is definitely possible I missed something.

#testing<-SLR\_model\_daily[-3]

#expect\_s3\_class(testing$training\_data, "data.frame")

* + export(aggregate)
  + export(align\_data)
  + export(assign\_model\_inputs)
  + export(calculate\_coverage)
  + export(calculate\_model\_predictions)
  + export(calculate\_norm\_savings\_and\_uncertainty)
  + export(calculate\_savings\_and\_uncertainty)
  + export(calculate\_summary\_statistics)
  + export(create\_dataframe)
  + ~~export(model\_demand\_with\_TOWT) (don’t worry about this one)~~
  + export(model\_with\_CP)
  + export(model\_with\_HDD\_CDD)
  + export(model\_with\_SLR)
  + export(model\_with\_TOWT)
* 4 steps
  + 1 type
  + 2 existence (within type)
  + 3
  + 4 actual output/values
* Create Dataframe
  + Section within code that performs function on additional variables
* Ben Next Steps
  + Testing
    - Test every case (40) by next week (April 6). Then work on actual cases by mid April.
  + Refactoring
    - Identify pieces which can be broken out.
    - On going, not high priority.
    - Last step, create flow chart

4/6 Call Notes

* The test doesn’t check the functionality of the convert to 15 min data frame, I would need some 15 min data (or smaller interval) to do this. Would you like me to add this?
  + Yes, add this. Meera to send data.
  + Nmecr currently doesn’t allow sub- 15 min data, so test will fail at the moment.
  + Hold off on this for now…
* The test doesn’t check the calculate coverage function for monthly or hourly intervals. Would you like me to add this?
  + Yes, I should add this
* Fix daily towt testing naming
  + done
* Get rid of vectors for interval and model type
  + done
* idea, create list of all model outputs to use in for loops
  + this would be next step to make code more compact.
* Update function inputs name (ie prediction data = xx)
* Add notes for what we are missing and put in separate document in the new nmecr group
  + Add note about missing interval tests
* Clean up variable names
* Do cold folding by inputting dashes (-----)
* Test all 10 algorithms in create predictions function
* Move around order of testing (as below)
  + ## Create Dataframe
  + ## Create Models (SLR, 3PC, 3PH, 4P, 5P, HDD, CDD, HDD\_CDD, TOW, TOWT)
  + ## Calculate Stats (R2, CVRMSE, etc.)
  + ## Calculate Savings Uncertainty for 10% savings
  + ## Calculate Model Predictions
  + ## Calculate Actual Savings Uncertainty
  + ## Calculate Coverage
  + ## Calculate Normalized Savings and Uncertainty

