Due to the complex nature of the program and the many possible paths it can take, it has become necessary to create a standard list of possible errors that may occur during the running of the program. The errors are named such that they are easy to categorise and find the related portion of the code that led to the error’s occurrence. It is structured like so:

<function name abbreviation>\_<specific function area>

For example: **GTD\_FERRY** means that the error was caused in the **getTravelDist** function, in the part of the code that processes travel distance for **ferries**.

The error codes will be listed like this:

GTD\_TRAIN will be listed under:

* GTD
  + TRAIN
    - There was an issue in the if statement contain (transportMode == TRAIN).

# Error list

* GCS - getConcessionStatus
  + ICS
    - Variable inputConcessionStatus held an incorrect value.
* GIS - getIsSunday
  + IGS
    - Variable getIsSunday held an incorrect value.
* GBC - getBasicCost
  + ACT
    - Variable addConnectingTrip held an incorrect value.
* GTM - getTransportMode
  + IGTM
    - Variable inputGetTransportMode held an incorrect value.
* GTD – getTravelDist
  + TRAIN
    - Variable inputGetTravelDist held an incorrect value in the (transportMode == TRAIN) if statement.
  + BUS
    - Variable inputGetTravelDist held an incorrect value in the (transportMode == BUS) else if statement.
  + FERRYCOMP
    - Variable ferryCompany held an incorrect value in the (transportMode == FERRY) else if statement.
  + FERRY
    - Variable inputGetTravelDist held an incorrect value in the (transportMode == FERRY) else if statement.
  + LIGHT
    - Variable inputGetTravelDist held an incorrect value in the (transportMode == LIGHTRAIL) else if statement.
  + TRANS
    - transportMode variable did not match any of the transport mode if/else statements. i.e. did not match a recognised transport mode.
* GIOP – getIsOffPeak
  + I
    - Variable getIsOffPeak held an incorrect value.
* CC – calculateCost
  + TRANS
    - transportMode variable did not match any of the transport mode if/else statements. i.e. did not match a recognised transport mode.
  + DIST
    - TRAIN
      * travelDist variable did not match any of the train travel distance if/else statements. i.e. did not match a recognised train travel distance.
    - BUS
      * travelDist variable did not match any of the bus travel distance if/else statements. i.e. did not match a recognised bus travel distance.
    - FERRY
      * travelDist variable did not match any of the ferry travel distance if/else statements. i.e. did not match a recognised ferry travel distance.
    - LIGHT
      * travelDist variable did not match any of the light rail travel distance if/else statements. i.e. did not match a recognised light rail travel distance.