Initial sizing Program flow

1. Get inputs from user
   1. Aircraft Type
   2. Mission Profile
   3. Range
   4. Cruise Speed
   5. Loiter Time
   6. Engine Type
   7. Wingspan
   8. Wing Configuration
   9. Root Cord Length
   10. Wing Sweep
   11. Landing Gear Configuration
2. Validate user inputs
   1. Check Combo boxes for selected index of -1
   2. Check Text boxes for an empty input
   3. Check Text boxes for a numerical input
   4. Check Text boxes for numerical inputs that make sense
      1. i.e. sweep not negative but less than 90deg)
   5. Sweep Angle Other checks
      1. If wing config is Conventional and sweep angle is not null – Error
      2. If Sweep angle is null set the text box value to “0”
3. Set user inputs to *aircraft* object
4. Set LDmax
5. Set LD cruise
6. Set LD Loiter
7. Set specific fuel consumption cruise
8. Set specific fuel consumption loiter
9. Set Missing Segment Cruise fuel weight fraction
10. Set Missing Segment Loiter fuel weight fraction
11. Set fuel weight fraction
12. Set empty weight fraction
13. Set initial Weight
    1. Continue calculation till the output Initial weight is within 1 kg of input initial weight