span- Wing span

chord- Wing Chord

lht- Tail moment arm

Cl- co efficient of lift of wing

Clmax- max coefficient of lift at stall angle

ar- Aspect ratio

warea- wing area

e- wing efficiency

a,ao- constant

ecd- engine Cd

lgcd- land gear Cd

htvco- horizontal tail volume coefficient

htarea- horizontal tail reference area

htar- horizontal tail aspect ratio

htspan- horizontal tail span

htchord- horizontal tail chord

flength- fuselage length including engine mount without engine

length- total length of plane

height- total height of the palne

vtspan- vertical tail span

fwidth- fuselage width

fff- fuselage form factor

fcd- fuselage cd

wff- wing form factor

wcf- wing cf

wcd- wing cd

htff- horizontal tail form factor

htcd- horizontal tail cd

htcf- horizontal tail cf

vtcf- vertical tail cf

vtcd- vertical tail cd

vtff- vertical tail form factor

L- constant used to make the program easy

vass- velocity assmed

vttchord- vertical tail tip chord

vtmchord- vertical tail mid chord

vtrchord- vertical tail root chord

vtarea- vertical tail area

fswet- fuselage wetted area

cdmin- Cd minimum

ffr- fuselage Fr

k- constant used in drag estimation

cd- coefficient of drag

freno- fuselage renolds no

wreno- wing renolds no

vtreno- vertical tail renolds no

htreno- horizontal tail renolds no

creno- critical renolds no( Transition renolds no from laminar to turbulent)

fcf- fuselage cf

cl3d- 3D cl

t- thurst

mass- total weight of the plane

gr- ground roll distance

lift- total lift

vstall- velocity at the stall

vesti- velocity estimated

tolift- take off lift