Problem

2 satellite might collide.
Two satellite have the same velocity because they are in the same orbit.
Momentum before collision is m1v+ m2(-v)
M1 = 400kg and m2 = 100kg → Pi = (400 kg) v + (100kg) (-19) = 300kg (v)

Momentum
Pf = (m1+m2)v' = (400kg + 100kg) v' = (500kg)v'
Pi = pf

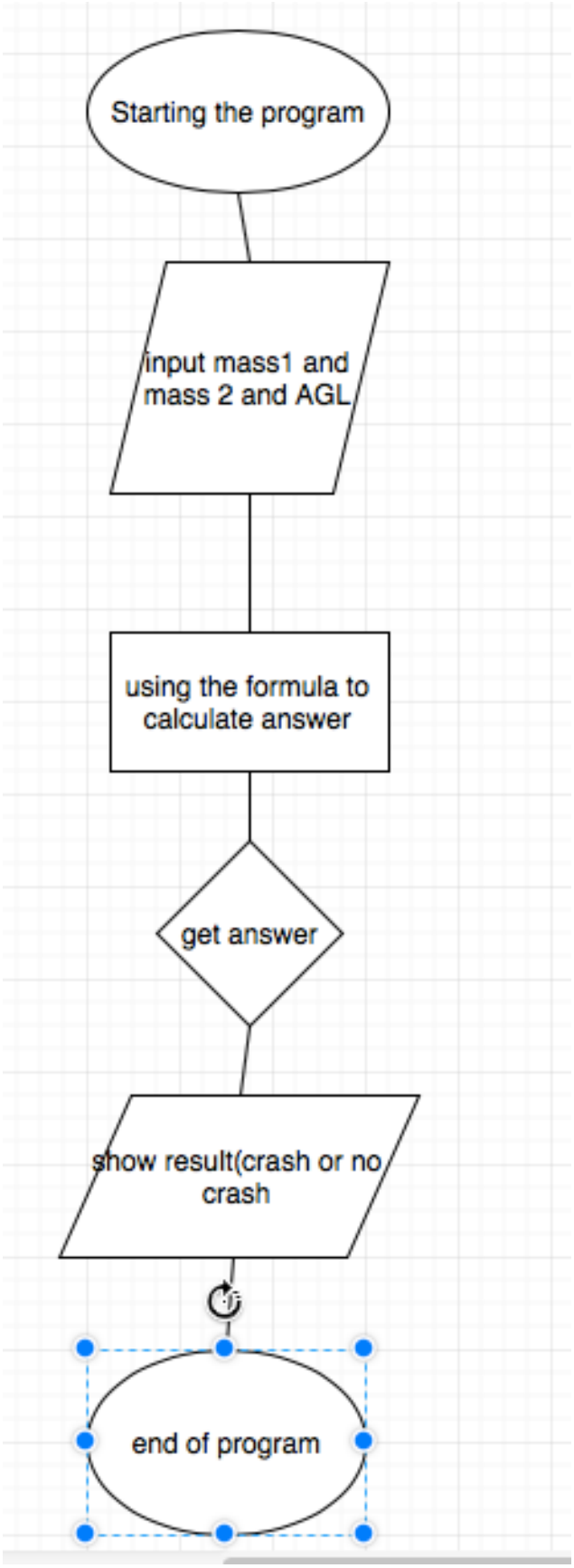
→ v' (300kg/500kg) v → v' = 0.6

then when decrease speed of wreckage, the wreckage can't stay in the orbit because the velocity depends on radius. When velocity get less it will hit the earth

Input/output

user will input the mass of satellite 1 and 2 and the altitude and the output will be crash or won't crash.

Flow Chart


Starting the program
input mass1 and mass 2 and AGL
using the formula to calculate answer
get answer
show result(crash or no crash
end of program