Q. To analyze a given ASM code and find the purpose of the code. Find when does the code print successful.

ans:

If the inputs are a, b, c then the program checks if they are Pythagorean triplets ie.

if(a^2+b^2==c^2)

Other conditions like a!=3, b!=4, c!=4 are also checked.

if a==3 or b==4 , fail is printed

if they are not Pythagorean triplets, nope is printed

if Pythagorean then successful is printed