```
clear, clc
cf = input('ingrese funcion = ');
f = inline(cf);
x0 = input('limite inferior = ');
x1 = input('limite superior = ');
tol = input('tolerancia = ');

error = 100;

n=0;
fprintf(' n   x0     x1       x2  \t error \n');

while(error > tol)

 x2 = x1 - (x1-x0) * f(x1) / (f(x1) - f(x0));

 error = abs(f(x2));

 fprintf(' %i  %4.4f  %4.4f  %4.4f  %4.4f  \n', n, x0, x1, x2, error);

 x0 = x1;
 x1 = x2;
 n = n + 1;
end

fprintf(' raiz =   %f  \n', x2);
```