```
function [x]=mybisc(a,b,tol,max_it)
% [x]=BISC(a,b, tol) is a Matlab code bisection method for finding a
% root of f(x)=0
%
% Input: a,b,tol,max_it
% Output: x --- one root
%


   iter=0;
   while iter<max_it
      t=(b-a)/2;
      c = a+ t;
      if (t<tol)
          break;
      end
      sc=sign(f(c));

      if sc==0
        break;
      end

      if sc * sign(f(b))> 0
          b = c;
      else
          a = c;
      end
      iter=iter+1;
      fprintf('The approximate solution at iteration %d is %g, and the error=%g\n',iter,c,t);
   end

   x=c;
   fprintf('The solution is %g,f(c)=%g,err=%g\n',c,f(c),t);
   return
%
% End of BISC


function result=f(x)

 result= x^3-2*x-5;

 return
```