**Bisectional method**

**Algorithm**

To determine a root of f(x)=0.that is accurate within a specified tolerance value. The given values are x1 and x2.such that

F(x)=x3-x-1

f(x1)\* f(x2)<0

repeat

set x3=(x1+x2)/2

if f(x3)\*f(x1)<0

set x2=x3

else set x1=x3

endif

or f(x3)=0

the final value of x3 approximate the root. The method may give a false root if f(x) is f(x) is discontinuous on [x1,x2]