

declare function

declare variables {maximum minimum }

set up the variables

define function

enter maximum value of interval as upper

enter minimum value of interval as down

if(func(upper)*func(down)>0)

{ print Root values of this function do not exist in this interval

Exit

}

while(absolute value of (upper-down)>10⁻⁵)

{ calculate the mean value of upper and down

If(function of upper*function of mean<0)

{replace down with mean}

Else{replace upper with mean}

Mean=(upper+down)/2 }

Print (upper+down)/2 as the approximation of root value