**PRACTICAL NO – 1(A)**

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Name :

Roll No :

Aim : Program to solve algebraic and transcendental equation by bisection method.

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function [**x**]=half(**a**, **b**, **f**)

N= 100;

eps= 1.e-5;

if( **f**(**a**) \* **f**(**b**) > 0) then

error('no root ')

abort;

end

if(abs(**f**(**a**)) < eps) then

error('sol at a ')

abort;

end

if(abs(**f**(**b**)) < eps) then

error('sol at b ')

abort;

end

while(N > 0)

c=(**a**+**b**)/2;

if(abs(**f**(c))< eps) then

**x**= c;

**x**

return;

end

if(**f**(**a**)\***f**(c) < 0) then

**b**=c;

else

**a**=c;

end

N= N-1;

end

error('no conve');

abort;

endfunction

**OUTPUT :**

-1->deff('y=f(x)',['y=x^3-2\*x^2-2\*x-1'])

-1->half(2,3,f)

ans = 2.8311768