

ASSIGNMENT NO:-

PROGRAM NO:-

% Program: TRAPEZODIAL RULE

% Name:

% Roll No.:

% I/P: Function, lower limit, upper limit, n

function []=PSJ_TRAP(fun,x0,xn,n)

h=(xn-x0)/n;

y0=feval(fun,x0);

yn=feval(fun,xn);

yr=0;

for i=1:1:n-1

yr=yr+feval(fun,x0+i*h);

end

I=(h/2)*(y0+yn+2*yr);

h

I

% HSB_TRAP(@(x) exp(x)/x,1,2,8)

% h =

% 0.1250

% I =

% 3.0615

% quad(@(x) exp(x)/x,1,2,8)

% ans=

% 3.0591