**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