```
% Pawan Raju Baisane
  % TY A Mechanical :03
  % simpson 1/3 rd rule
  clc ;
  clear all;
  close all;
  f=input('define a function (fx)');
  x0=input('write the value of
  x0:'); xn=input('write the value
  of xn:'); n=input('Enter the value
  of n:'); h=(xn-x0)/n;
  area1=0;
  area2=0;
  for i=1:n-
  1;
  if (mod(i,2) \sim = 0)
  area1=f(x0+i*h)+area1
  ; else
  area2=f(x0+i*h)+area2
  ; end
  end
  ans=(h/3)*((f(x0)+f(xn))+4*area1+2*area2);
  fprintf('\n value of intergration is %f',ans);
Output:
define a function (fx)
 @ (x)((exp(x))/x)
write the value of x0:
write the value of xn:
 3
Enter the value of n:
 6
value of intergration is 8.039213
 quadv(f,1,3)
ans =
8.0387
```