**AIM: Write a program using Simpson’s Rule.**

**Source Code:**

**clc**

**clear**

**sum=0**

**deff('d=f(x)','d=exp(x)')**

**n=input('The number of subinterval: ')**

**a=input('Enter the lower limit: ')**

**b=input('Enter the upper limit: ')**

**sum=f(a)+f(b)**

**h=(b-a)/n**

**for i=1:n**

**if(modulo(i,2)==0)**

**sum=sum+2\*f(a+i\*h)**

**else**

**sum=sum+4\*f(a+i\*h)**

**end**

**end**

**I=h\*(sum)/3**

**disp(I,'Integral is= ')**