```
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#SIMPSON'S 3/8 RULE
import numpy as np
def fun(x):
    y1=x*x
            #any given func
    return y1
a=int(input("enter lower limit:"))
b=int(input("enter upper limit:"))
n=int(input("enter number of intervals:"))
h=(b-a)/(n-1)
x=np.zeros(n)
y=np.zeros(n)
for i in range(n):
    x[i]=a+i*h
    y[i]=fun(x[i])
s=y[0]+y[n-1]
for i in range(1,n-1):
    if i%3==0:
        s+=2*(y[i])
    else:
        s+=3*(y[i])
val=(s*3*h)/8
print("value by integration is:",val)
#OUTPUT
"enter lower limit:1
enter upper limit:10
enter number of intervals:10
value by integration is: 333.0"
```