
```
1 import numpy as np
2 a=1
3 b=np.sqrt(0.5)
4 t=0.25
5 p=1
6 for i in range(1,4):
7     a1=(a+b)/2
8     b1=np.sqrt(a*b)
9     t1=t-p*(a-a1)**2
10    p1=2*p
11    a=a1
12    b=b1
13    t=t1
14    p=p1
15 mypi=((a+b)**2)/(4*t)
16 print(mypi)
```
