```
import numpy as np

SIZE = 100
4    A = np.pi
5    B = np.exp(1)
6    err = np.random.normal(scale=np.pi, size=SIZE)
7    f = lambda x: A * x + B

8    x = np.linspace(-10, 10, SIZE)
9    y = f(x) + err
1    a, b = np.polyfit(x, y, deg = 1)
12    print(a, 'u', b, end='\n')

13    f = open("data.dat", "w")
15    f.write("x\ty")

6    for i in range(len(x)):
16    for irrange(len(x)):
17    for iverite("\n{}\t{}\t{}\tau_i^*.format(x[i], y[i]))
```



