```
# Show_randn.py
""" This module affirms that
random.normalvariate(mu,sigma)
generates random numbers from the normal distribution
with
specified mean and standard deviation.
"""

from math import sqrt
from
random import normalvariate as randn

mu = input('Enter the mean: ')
sigma = input('Enter the
standard deviation: ')
N = input('Enter the number of trials: ')
sum1 = 0
sum2 = 0
for k in
range(N):
    x = randn(mu,sigma)
    sum1 += x
    sum2 += (x-mu)**2
mu_tilde =
float(sum1)/float(N)          # Estimated mean
sigma_tilde = sqrt(float(sum2)/float(N)) #
Estimated standard deviation
print 'Estimated Mean = %10.6f' % mu_tilde
print 'Estimated std  =
%10.6f' % sigma_tilde
```