

```
1 - final_u = [];  
2 - final_sigma = [];  
3 - for N=1:10000  
4 -     x1 = normrnd(0, 1, [1 N]);  
5 -     x2 = normrnd(0, 1, [1 N]);  
6 -     f = x1.^2+x2.^2;  
7 -     u = mean(f);  
8 -     sigma = std(f);  
9 -     final_u = [final_u u];  
10 -    final_sigma = [final_sigma sigma];  
11 - end  
12  
13 - N = [1:1:10000];  
14 - %plot(N, final_u);  
15 - %title('Mean');  
16 - plot(N, final_sigma);
```



