

120040025

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In [296]: import pandas as pd
import matplotlib.pyplot as plt
import random

n=[0]
totalPayment=[0]
averagePayment=[0]

for i in range(10000):
    n.append(i+1)
    dice=random.randint(1,6)
    totalPayment.append(totalPayment[-1])
    if dice==1 or dice==2 or dice==3:
        totalPayment[-1]+=1
    elif dice==4 or dice==5:
        totalPayment[-1]+=2
    else:
        totalPayment[-1]+=3
    averagePayment.append(float(totalPayment[-1]/n[-1]))

data = {'N':n,'Average Payment':averagePayment}
df = pd.DataFrame(data,columns=['N','Average Payment'])
df.plot(x='N', y='Average Payment', kind='scatter')
plt.show()
```

