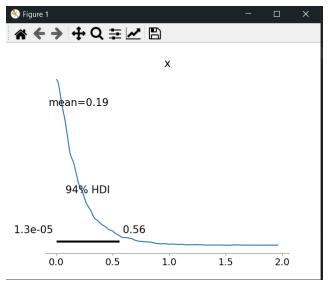
EX1.

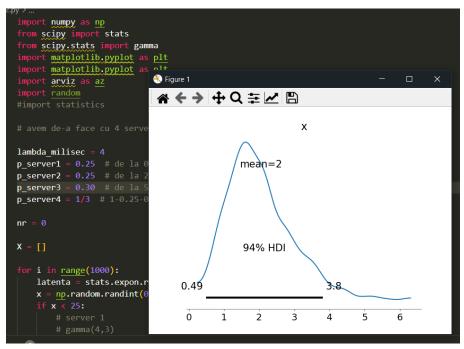


```
💨 ex1.py > ...
       import numpy as np
from scipy import stats
from scipy.stats import expon
import matplotlib.pyplot as plt
import matplotlib.pyplot as plt
import arviz as az
        import random
        import statistics
       #x = stats.expon.rvs(0, 1, 10000)
#lambda1=4 hrs^-1 => p1=1/4=0.25
        p_lambda_1 = 0.25
        p_lambda_2 = 0.16
        X = []
        for n in range(1, 10_000):
             x = random.randint(1, 100)
                  x_mecanic1 = stats.expon.rvs(0, p_lambda_1, 1)
PROBLEMS (6) OUTPUT TERMINAL JUPYTER SQL CONSOLE DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\emili\OneDrive\Desktop\AN_3\PMP\Lab2> python -u "c:\Users\emili\OneDrive\Desktop\AN_3\PMP\Lab2\ex1.py"
0.19416341651050892
0.20305207989914806
PS C:\Users\emili\OneDrive\Desktop\AN 3\PMP\Lab2> [
```

EX2.

Pentru 1000 clienti:

Nu mai avem nevoie de distributia exponentiala, ci o folosim pe cea Gamma.



```
Execution result - Qiskit ×

0.157
C:\Users\emili\anaconda3\lib\site-packages\arviz\data\base.py:220: UserWarning: New York warnings.warn(
```

EX3.

