Assignment 6

1. Generate 1000 samples from Binomial(15, 0.25) distribution using the inverse transformation method. Also validate the samples.
2. Considera PMF

$$f(x) = \frac{e^{-\mu}\mu^{x}}{x!}, \text{ where } \mu > 0 \ \& \ x = 0, 1, 2,....$$

Generate n samples from the aforementioned PMF where the true value of μ is 0.75, where n will be the user input. Further, analyse the mean of the samples for different values of n.

Note that, you have to write one single *class* for both the questions.