Week 6 Homework: Poisson Distribution

Your task is to write visual basic code that will create a Probability Distribution Function (PDF) table for the Poisson(λ) distribution, similar to the one pictured below.

The Poisson PDF (probability that it equals a value k) is . (Note: Raising e to a power is built into VBA, but factorials are not.)

You may assume the following:

* The value for λ is in a specific cell (e.g. Cells(1,2))
* The value for the maximum k is in a specific cell (e.g. (Cells(2,2))
* The table will start printing at a specific line

The minimum requirements:

* The user will need to erase the old table by hand before printing the new one.
* The subroutine will run when the user selects it from the macros tool in the developer menu.
* Code is written with good variable names, proper indentation, and comments where necessary.

Optional extras:

* Automatically erase any previous results before printing the table.
* Create a button that will run the macro when it is clicked.
* Add a third column displaying the CDF
* Implement a way for the user to choose other distributions to calculate beside the Poisson.

