c-sharp HW #3

Define the following five functions.

- 1- **power:** This function return power of tow numbers , the function take <u>one parameter</u> , the power of number **2.**
- 2- calcShapeArea: This function calculates and returns the area of a shape (Triangle or Rectangle). The function should take two double arguments (diminutions of the shape) and a single character ('T', or 'R'), if the character argument is 'T' then the area of a triangle with the passed arguments should be calculated and returned. Where the area of a rectangle should be calculated and retuned if the passed char is 'R'. The function should return 0 otherwise.
- 3- calcSeriesLog: This function calculates and returns the value of log10(12+22+32++42+......+N2). The function should take one integer argument (N). Hint: Use loops to calculate the series and the math library to calculate its log. <u>Use ref keyword</u>

4- drawRectangle: This function displays at the left margin of the screen a solid rectangle using a specified character. The function should take two integer arguments (the rectangle sides: width and height) and one character argument (fill). For example, if width is 3, height is 2, and fill is '*', then this function should print the following:

5- **printMenu:** This function displays the following menu at the screen.