Future Worth (Loop)

An amount of money P is invested in an account where interest is compounded annually. The future worth F yielded at an interest rate i after n years may be determined from the following formula:

$$F = P(1+i)^n$$

<u>Using a for loop</u>, write a *function m-file* which calculates the future worth of an investment for each year from 1 through n. The function definition is:

Present worth P, interest rate i, number of periods n are inputs along with plotStatus, which toggles a plot of F over the years on or off. The future worth F is the output.

