Homework 2

Due date: Monday February 2, 11:59pm

write a program called home2.py containing

- 1. a function that prints the Fibonacchi series (we discussed this in class using recursion), but use a **for** loop and not recursion.
- 2. Write a function that can generate a grid returning a list of coordinates (x,y) using as arguments the bounds for x and the bounds for y and the grid step size.
- 3. Write a function myplot, that can take a list of coordinates (x,y) that are on a grid. The python function will plot this function $f(x,y)=(\sin x^4)y^2(\cos y^4)x^2$ over the range x:0.5,2 and y:0.5,2. The result should be
 - (a) a 3D plot
 - (b) a contour graph

side by side as a PDF or PNG file.

Send the file home2.py and the plot in an compressed archive (.tar.gz or .zip) to beerli@fsu.edu.