

Python Problems for Skywalker Aryan

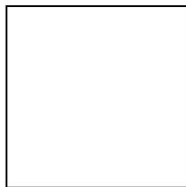
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Write a program **showgrafix.py** which displays a drawing by reading in 2D coordinates from a text file. Say we have a file called **square.txt** which looks like:

```
# draws a square
-50 50 50 50
-50 -50 50 -50
-50 50 -50 -50
50 50 50 -50
```

Your program will read in this file (use the **open()** function) and draw 2D lines using **turtle**. Each line of text is of the form **x1 y1 x2 y2** which defines a 2D line drawn from (x1, y1) to (x2, y2). Now if you run your program:

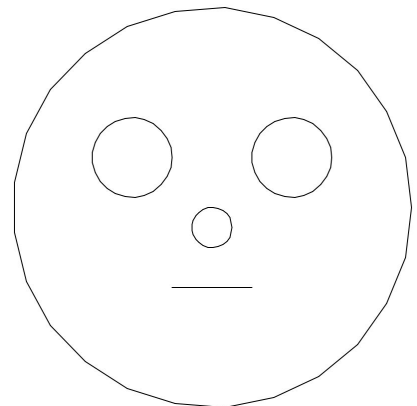
```
$python3 showgrafix.py square.txt
```



You get a square. Use **sys.argv** to get the file name, and another thing you need to make sure is that you skip all lines in the input file that begins with the **#** character - since those lines are just comments. Also, ensure that there are **four** numbers in each line, so your program doesn't crash!

You could even write **another** Python program to generate these kinds of input files. I wrote a small program to create the file **geom.txt**, and look what I get when I run:

```
$python3 gengrafix.py
$python3 showgrafix.py geom.txt
```



Think of how you can write your own **gengrafix.py**.