

Lista de Exercícios 1 (Slides: Python 1)

Instruções:

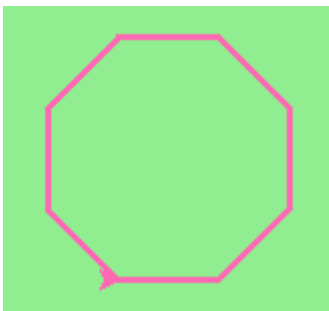
- a) Os exercícios são individuais e devem ser entregues como projetos no GitHub.
- b) Enviar o link do site no GitHub através do Google Class.

Data final para entrega: 18/03/2022

1) Write a program to draw this. Assume the innermost square is 20 units per side, and each successive square is 20 units bigger, per side, than the one inside it.



2) Write a void function `draw_poly(t, n, sz)` which makes a turtle draw a regular polygon. When called with `draw_poly(tess, 8, 50)`, it will draw a shape like this:



3) Write a fruitful function `sum_to(n)` that returns the sum of all integer numbers up to and including `n`. So `sum_to(10)` would be $1+2+3\ldots+10$ which would return the value 55.

4) Write a function, `is_prime`, which takes a single integer argument and returns `True` when the argument is a *prime number* and `False` otherwise.

5) Write a function that recognizes palindromes.