





Procedures (or functions)

- In addition to 5!, we would like to calculate *n*! for some *n*.
- We may want to calculate 5! more than once in a program.
- We can name a piece of code as a *procedure*.
- A procedure may have parameters.











Recursive calls

print('5! = ', factRecur(5))
print('0! = ', factRecur(0))
print('10! = ', factRecur(10))
print('100! = ', factRecur(100))



























Some more examples

print('The square root of ', 20000000, ' is ', srByBinarySearch(20000000), '.') print('The square root of ', 2000000000000000, ' is ', srByBinarySearch(2000000000000000), '.')







Some more examples

print('pi is ', <u>piWithRectangle(0.001)</u>, ', where e is 0.001.') print('pi is ', <u>piWithRectangle(0.00001)</u>, ', where e is 0.000001.') print('pi is ', <u>piWithRectangle(0.0000001)</u>, ', where e is 0.0000001.')



Some more examples

29

print('pi is ', <u>piWithTrapezoido(0.001)</u>, ', where e is 0.001.') print('pi is ', <u>piWithTrapezoido(0.00001)</u>, ', where e is 0.000001.') print('pi is ', <u>piWithTrapezoido(0.0000001)</u>, ', where e is 0.0000001.')