Everything is a object

#forces to read entire script .

#if you import everthung will be there, if you run will start from main.

If \_\_name\_\_== ‘\_\_main\_\_’: main()

Blocks do not define scope only functions, objects do.

**If else problem:**

Chocolate bar can be split into two rectangular parts by breaking it along a selected straight line on its pattern. Determine whether it is possible to split it so that one of the parts will have exactly k squares.

**For loop:**

For n print sum of factorial until n.

This problem has a solution with only one loop, so try to discover it. And don't use the math library

**Strings:**

Given a string that may or may not contain a letter of interest. Print the index location of the first and last appearance of f. If the letter f occurs only once, then output its index. If the letter f does not occur, then do not print anything.

Given a string in which the letter h occurs at least two times, reverse the sequence of characters enclosed between the first and last appearances.

Given a string in which the letter h occurs at least twice. Remove from that string the first and the last occurrence of the letter h, as well as all the characters between them.

Given a string. Delete from it all the characters whose indices are divisible by 3.

**While loop:**

As a future athlete you just started your practice for an upcoming event. Given that on the first day you run *x*miles, and by the event you must be able to run *y* miles.

Calculate the number of days required for you to finally reach the required distance for the event, if you increases your distance each day by 10% from the previous day.

Print one integer representing the number of days to reach the required distance

A sequence consists of integer numbers and ends with the number 0. Determine how many elements of this sequence are greater than their neighbours above.

**Function problems**

Fibonacci

Factorial

Given a positive real a Compute a to the power of n