Haskell -> purely functional programming language. In imperitive large, a comp. is given a seq of tasks which it executes. While executing these tasks, it can change state, meaning, a variable a = 5, can be dranged to a different value, at a different point in the execution of the program.

In purely functional programming, we don't tell
the computer what to do as such but rather we tell
it what stuff is. i.e. The factorial of a no.
is the product of all no.s from I to that no., or the
Sum of a list of a numbers is the first no. plus
the sum of all other no.s and so on.

we express things in form of functions.

We can't also set a variable to something and then
set it to something else, meaning functions have
no side effects. The only thing that a function can
do is to calculate something and return it as a
result.

y a fin is called with same parameters, it is grazanteed to return the same result always.

called referential transparency

This allows us to easily deduce ( and prove) that a fn. is correct and then build more complex fns. by gluing simple functions together.

In Haskell, programs can be thought of as a selice of transformations on data. Due to its lazy nature, Haskell won't execute fine and calculate things until it's really forced to show us a result.

Statically typed i.e. when we compile our program, the compiler knows which piece of code is of unal type.

Type inference i e we don't explicitly have to label every piece of code with a type because the type system can intelligently figure it out. Type inference also allows our code to be more general.

·) What we ned to dive in : text editor f Haskell Compiler

4HC

(takes he soupt of compiles it)

GHCI -> interactive mode.

any for written in anexternal file cour be loaded using

: I myfinations.

The functions library file should be in the same file where ghei was invoked

prospective workflow: defining some functions in a .h. file, loading it up and messing around with them and then changing the .h. file, boading it again and so on.