

# Haskell



# Functies

- Function application
- Infix function
- Geen volgorde
- Niet beginnen met hoofdletter
- Teken ‘

# Condities

- If.. Then..
- Else verplicht

# Lists

- Arrays
- Strings
- ++
- :
- !!
- Vergelijken
- Texas ranges
- List comprehension

# Tuples

- Verschillende types
- Elke grootte ander type
- List comprehension

# Hulpmiddelen

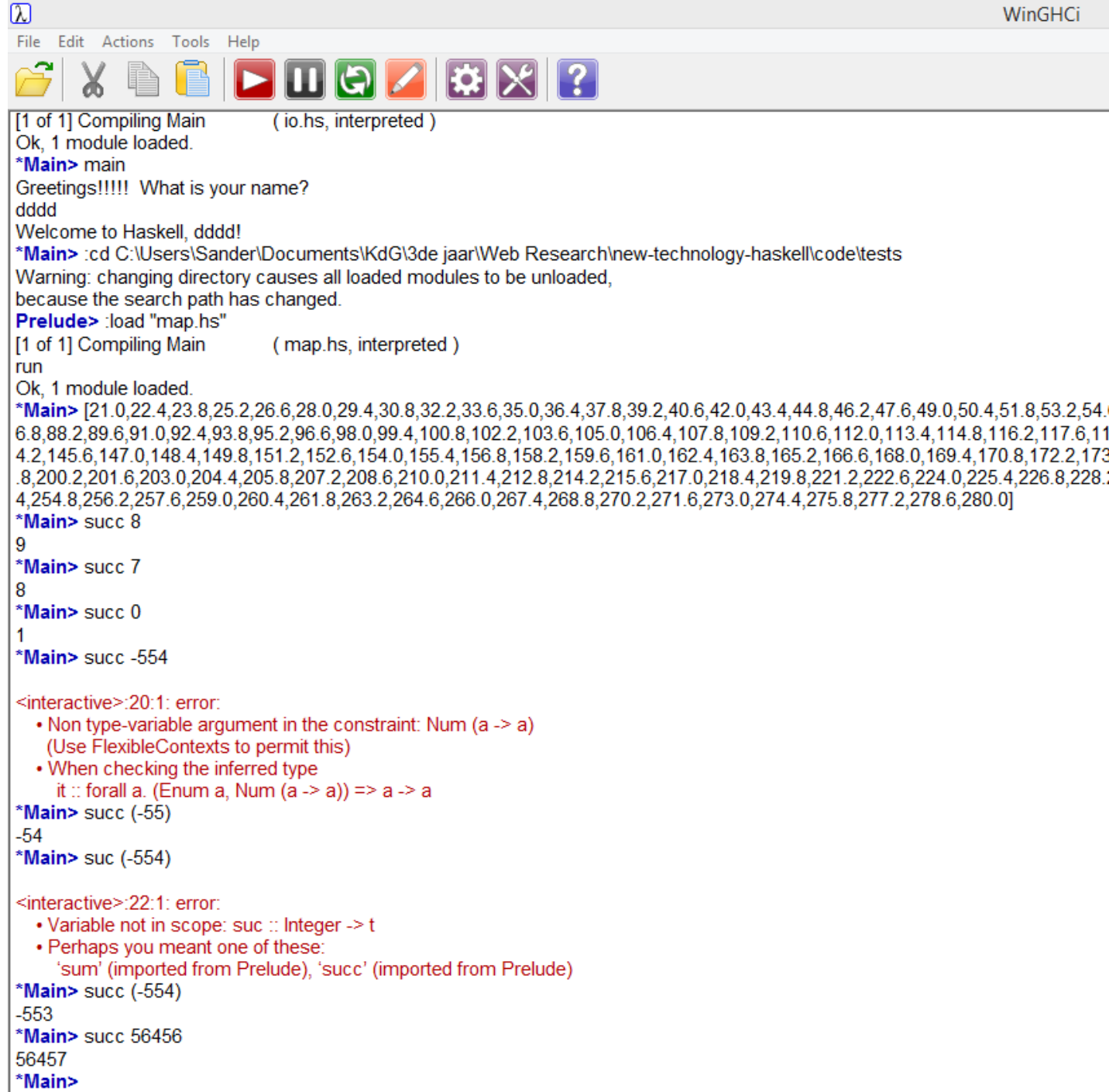
- Stack
- Cabal
- Hackage
- Haddock
- ...

# Frameworks

- Happstack
- Snap
- Yesod
- Scotty
- ...

# GHCi

- Compiler
- WinGHCi



The screenshot shows the WinGHCi application window. The title bar at the top reads "WinGHCi". Below the title bar is a menu bar with "File", "Edit", "Actions", "Tools", and "Help". Underneath the menu bar is a toolbar containing icons for file operations (folder, copy, paste, save), execution (play, pause, refresh), and settings (gear, wrench, question mark). The main text area displays the following content:

```
[1 of 1] Compiling Main          ( io.hs, interpreted )
Ok, 1 module loaded.
*Main> main
Greetings!!!! What is your name?
dddd
Welcome to Haskell, dddd!
*Main> :cd C:\Users\Sander\Documents\KdG\3de jaar\Web Research\new-technology-haskell\code\tests
Warning: changing directory causes all loaded modules to be unloaded,
because the search path has changed.
Prelude> :load "map.hs"
[1 of 1] Compiling Main          ( map.hs, interpreted )
run
Ok, 1 module loaded.
*Main> [21.0,22.4,23.8,25.2,26.6,28.0,29.4,30.8,32.2,33.6,35.0,36.4,37.8,39.2,40.6,42.0,43.4,44.8,46.2,47.6,49.0,50.4,51.8,53.2,54.6,56.0,57.4,58.8,60.2,61.6,63.0,64.4,65.8,67.2,68.6,69.9,71.3,72.7,74.1,75.5,76.9,78.3,79.7,81.1,82.5,83.9,85.3,86.7,88.1,89.5,90.9,92.3,93.7,95.1,96.5,97.9,99.3,100.7,102.1,103.5,104.9,106.3,107.7,109.1,110.5,111.9,113.3,114.7,116.1,117.5,118.9,120.3,121.7,123.1,124.5,125.9,127.3,128.7,130.1,131.5,132.9,134.3,135.7,137.1,138.5,139.9,141.3,142.7,144.1,145.5,146.9,148.3,149.7,151.1,152.5,153.9,155.3,156.7,158.1,159.5,160.9,162.3,163.7,165.1,166.5,167.9,169.3,170.7,172.1,173.5,174.9,176.3,177.7,179.1,180.5]
*Main> succ 8
9
*Main> succ 7
8
*Main> succ 0
1
*Main> succ -554
<interactive>:20:1: error:
• Non type-variable argument in the constraint: Num (a -> a)
  (Use FlexibleContexts to permit this)
• When checking the inferred type
  it :: forall a. (Enum a, Num (a -> a)) => a -> a
*Main> succ (-55)
-54
*Main> suc (-554)
<interactive>:22:1: error:
• Variable not in scope: suc :: Integer -> t
• Perhaps you meant one of these:
  'sum' (imported from Prelude), 'succ' (imported from Prelude)
*Main> succ (-554)
-553
*Main> succ 56456
56457
*Main>
```



# IDEs

- Extensies
- Leksah

