

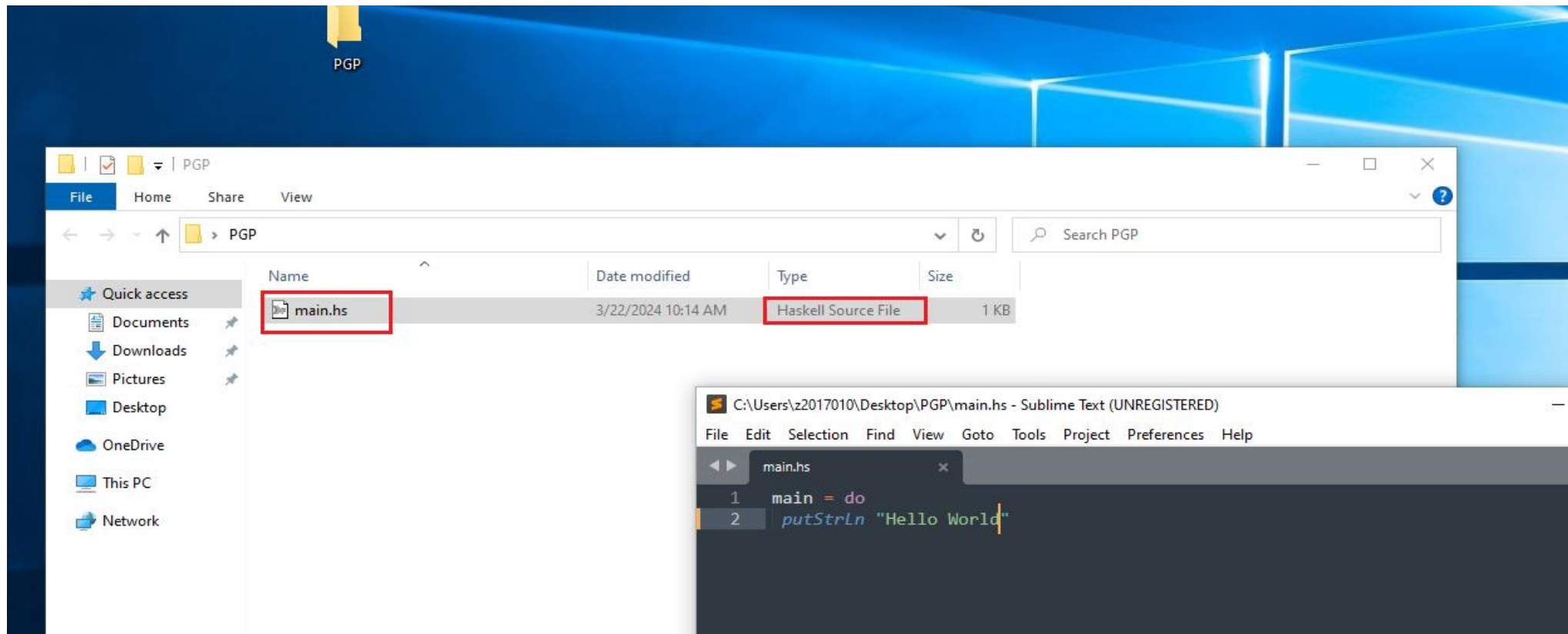
Using Haskell on Lab Machines

By Jane Zhao

Haskell on IAMET-406 Lab Machines

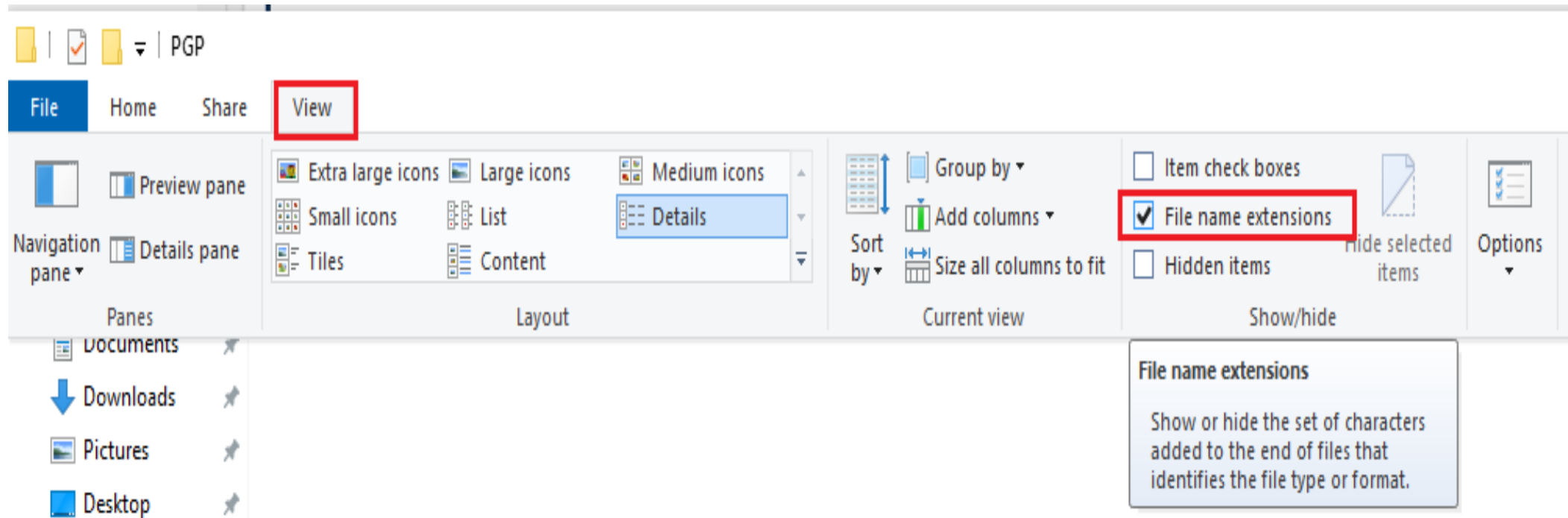
- All computers in IAMET-406 have been installed with Haskell Platform.
- You can use GHCi directly.
- Though Haskell Platform has slightly different programming environment, the core Haskell language is the same.
- There are some points for you to take note, in the next few slides.

You can use an editor, such as Sublime Text, to create the **.hs** file in some local folder, edit it and save it. Just make sure it is a Haskell source file.



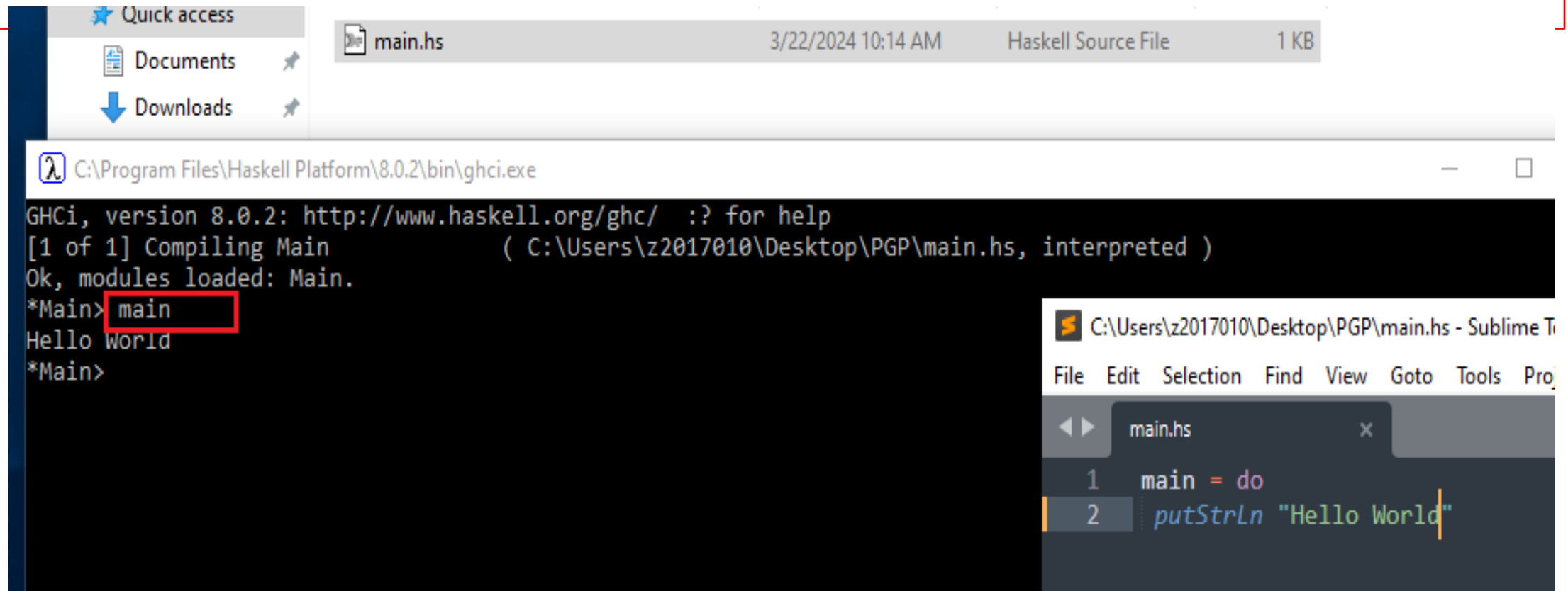
By default, the file extension is hidden on lab computers, so you may get a **.txt** file even when you name the file with **.hs** extension.

You can show the file extension and remove the **.txt**, as shown below.



You can double click on **.hs** file to open the Haskell compiler and get the **.hs** file complied and loaded directly.

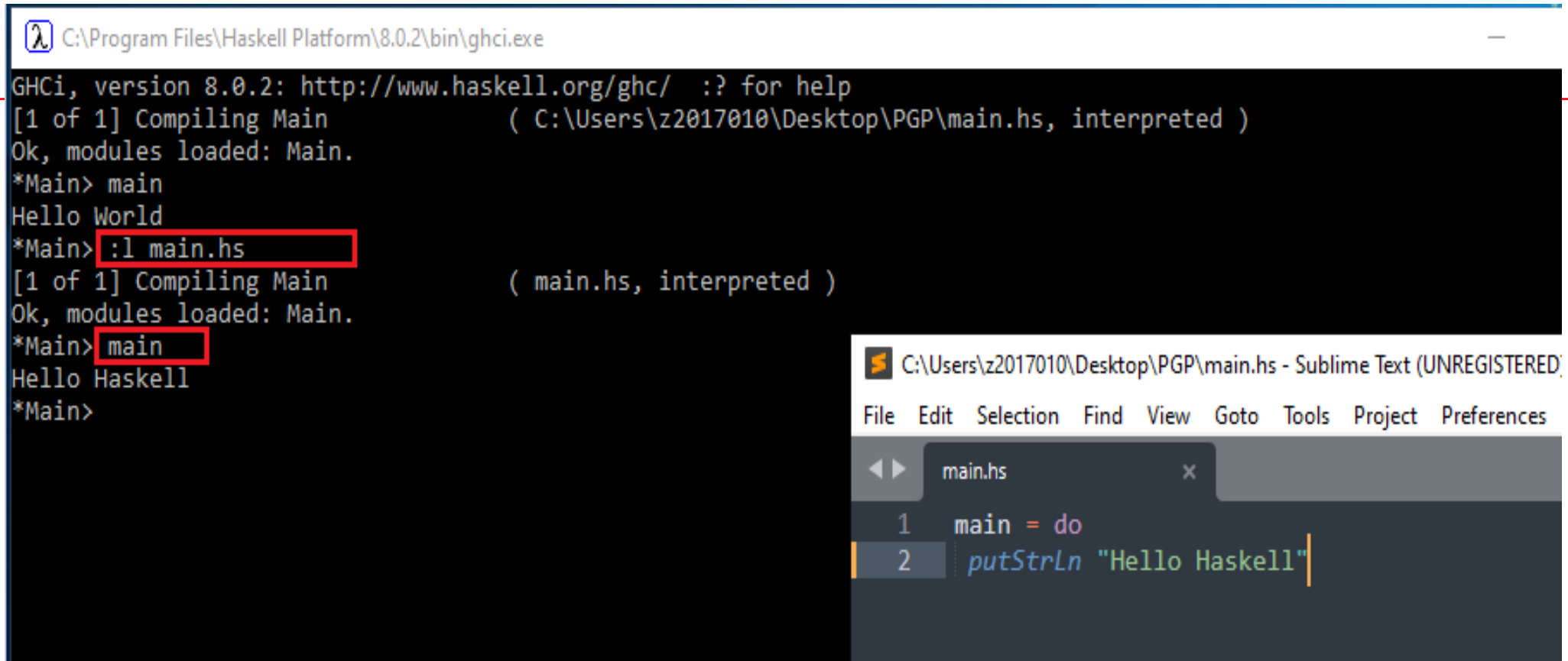
You can then run the Haskell program by typing **main**, as shown below.



The screenshot shows a Windows file explorer window with a file named `main.hs` (Haskell Source File, 1 KB) dated 3/22/2024 10:14 AM. Below it is a terminal window running `ghci.exe`. The terminal output shows the compilation of `main.hs` and the execution of `main`, resulting in "Hello World". A red box highlights the `main` command in the terminal. To the right, a snippet of the `main.hs` file is shown, containing the following code:

```
1 main = do
2   putStrLn "Hello World"
```

You can modify the Haskell program (i.e., the **.hs** file), reload the file (typing **:l**) and run it again to get the result, as shown below.



The image shows a screenshot of a Haskell GHCi terminal window and a Sublime Text editor window. The terminal window, titled "C:\Program Files\Haskell Platform\8.0.2\bin\ghci.exe", displays the following output:

```
GHCi, version 8.0.2: http://www.haskell.org/ghc/  :? for help
[1 of 1] Compiling Main                ( C:\Users\z2017010\Desktop\PGP\main.hs, interpreted )
Ok, modules loaded: Main.
*Main> main
Hello World
*Main> :l main.hs
[1 of 1] Compiling Main                ( main.hs, interpreted )
Ok, modules loaded: Main.
*Main> main
Hello Haskell
*Main>
```

The Sublime Text editor window, titled "C:\Users\z2017010\Desktop\PGP\main.hs - Sublime Text (UNREGISTERED)", shows the contents of the `main.hs` file:

```
1  main = do
2  putStrLn "Hello Haskell"
```

In the terminal, the commands `:l main.hs` and `main` are highlighted with red boxes, indicating the process of reloading the file and running it again.