LABSHEET - 1

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BATCH: C.S.E - B

```
adhinene@sampat:~

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ghci
GHCi, version 8.8.4: https://www.haskell.org/ghc/ :? for help
Prelude> 5+2

Prelude> 5 * 2 + 3

Prelude> sqrt 4.0

2.0

Prelude> sum[2,3,4]

Prelude> length[2,3,4,5]

4

Prelude> :m + Data.List
Prelude Data.List> sort [3,4,1,2,77,6]

[1,2,3,4,6,77]
Prelude Data.List>
```

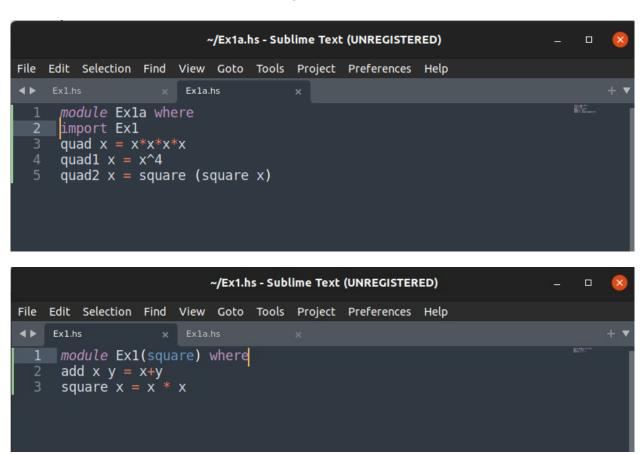
First Script:

```
1 add x y = x+y
2 square x = x * x
```

```
Q = - -
                               adhinene@sampat: ~
adhinene@sampat:~$ subl Ex1.hs
adhinene@sampat:~$ ghci
GHCi, version 8.8.4: https://www.haskell.org/ghc/ :? for help
Prelude> add 3 4
<interactive>:1:1: error:
  • Variable not in scope: add :: Integer -> Integer -> t
   Perhaps you meant one of these:
       'and' (imported from Prelude), 'odd' (imported from Prelude)
Prelude> :l Ex1.hs
                         ( Ex1.hs, interpreted )
[1 of 1] Compiling Main
Ok, one module loaded.
*Main> add 3 4
*Main>
```

Second Script (before changes):

Second Script (after changes):



<u>List Of Commands</u>:

```
Prelude> 2*-3
<interactive>:6:2: error
    • Variable not in scope: (*-) :: Integer -> Integer -> t
    • Perhaps you meant one of these:
         '*' (imported from Prelude), '-' (imported from Prelude),
'*>' (imported from Prelude)
Prelude> 2*(-3)
-6
Prelude> True && False
False
Prelude> False || True
True
Prelude> True && 1
<interactive>:10:9: erro

No instance for (Num Bool) arising from the literal '1'
In the second argument of '(&&)', namely '1'

      In the expression: True && 1
      In an equation for 'it': it = True && 1
Prelude> 1==1
True
Prelude> 2 /= 3
True
Prelude> not True
False
Prelude> 1 + (4 * 4)
17
Prelude> 1 + 4 * 4
17
Prelude> [1,2,3]
[1,2,3]
Prelude> [True,False,"testing"]
<interactive>:17:13: er
    • Couldn't match expected type 'Bool' with actual type '[Char]'
    • In the expression: "testing"
      In the expression: [True, False, "testing"]
In an equation for 'it': it = [True, False, "testing"]
Prelude> [1..10]
[1,2,3,4,5,6,7,8,9,10]
Prelude> [1.0,1.25..2.0]
[1.0,1.25,1.5,1.75,2.0]
Prelude> [1,4..15]
[1,4,7,10,13]
Prelude> [10,9..1]
[10,9,8,7,6,5,4,3,2,1]
Prelude> [3,1,3] ++ [3,7]
[3,1,3,3,7]
Prelude> [] ++ [False,True] ++ [True]
[False,True,True]
Prelude> 1 : [2,3]
[1,2,3]
Prelude> "This is a string"
'This is a string"
Prelude> putStrLn "Here's a newline -->\n<-- See?"
Here's a newline -->
<-- See?
Prelude> "" == []
Prelude> :type 3 + 2
3 + 2 :: Num a => a
Prelude>
```