

作业 1：求一个数的开方

一：Source Code：

```
FindAllPath.hs  Sqrt.hs x  Hello.hs  Test1.py  run.sh  Demo3.hs  Demo6.hs  D
1  sqrt' :: Double -> Double
2  sqrt' x = iter x (x/2.0)
3      where
4          iter x0 y
5              | abs(x0 - y*y) < 0.0000001 = y
6              | otherwise = iter x0 (improve y)
7          improve y = (y + x/y)/2.0
8
9  main = do
10      print(sqrt' 2)
11
```

详细代码请查看附件 1

二：实验结果：

```
FindAllPath.hs  Sqrt.hs x  Hello.hs  Test1.py  run.sh  Demo3.hs  Demo6.hs  Demo4.hs
1  sqrt' :: Double -> Double
2  sqrt' x = iter x (x/2.0)
3      where
4          iter x0 y
5              | abs(x0 - y*y) < 0.0000001 = y
6              | otherwise = iter x0 (improve y)
7          improve y = (y + x/y)/2.0
8
9  main = do
10      print(sqrt' 2)
11
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
basiccoder@Ubuntu1604:~/Work/Haskell$ runghc FindAllPath.hs
[[1,2,3,4],[1,3,4]]
basiccoder@Ubuntu1604:~/Work/Haskell$ runghc Sqrt.hs
1.4142135623746899
basiccoder@Ubuntu1604:~/Work/Haskell$
```

附件：

[1] Sqrt.hs