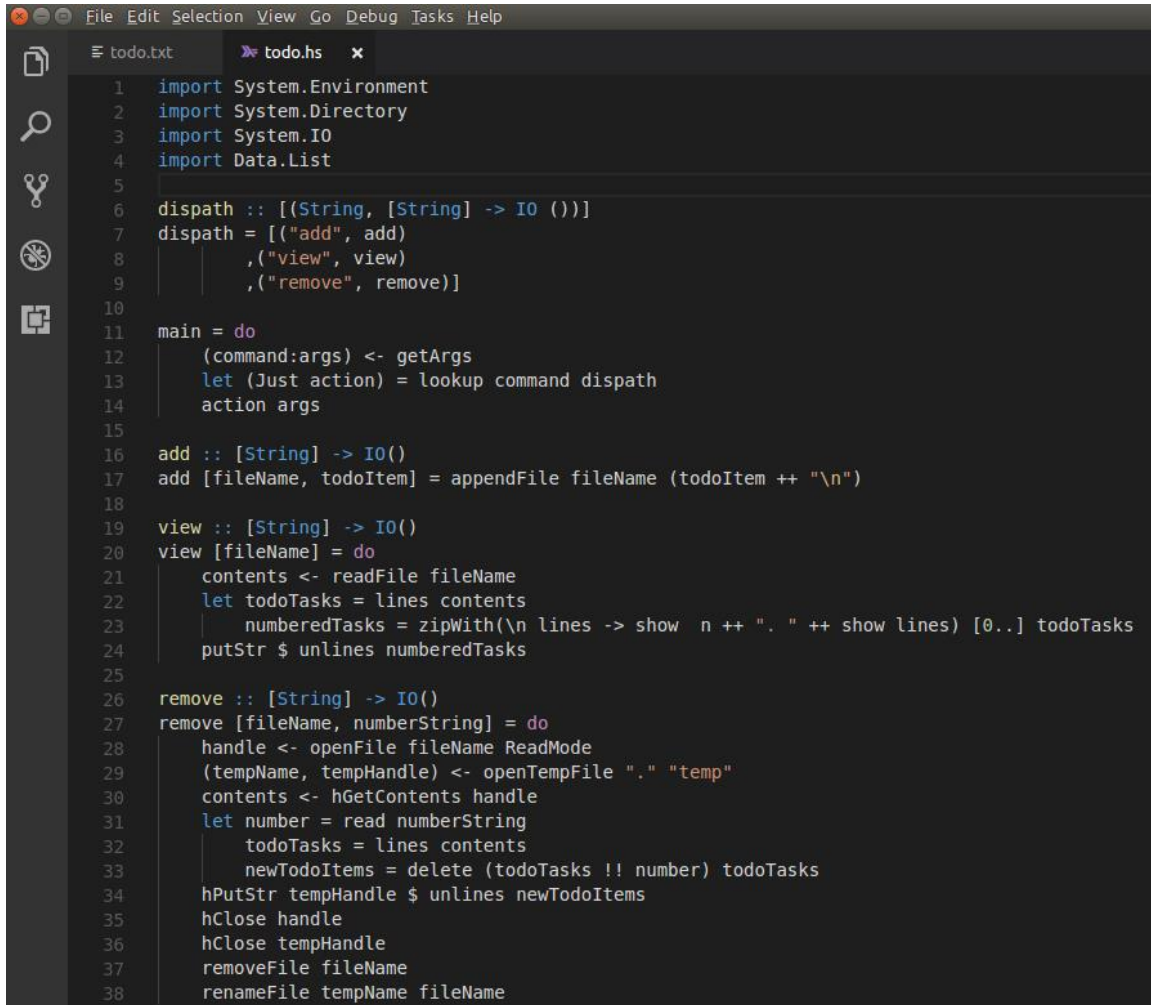


作业 1：文件操作

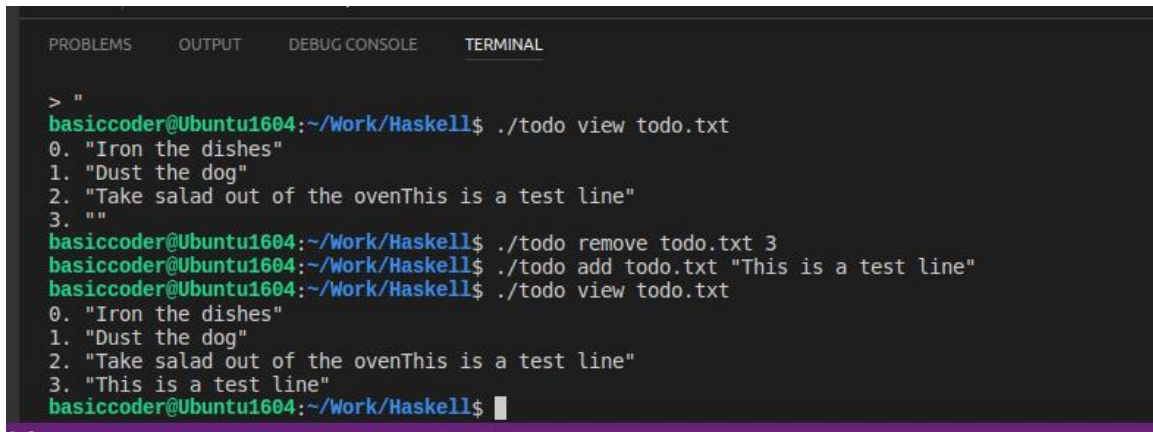
一：Source Code:



```
File Edit Selection View Go Debug Tasks Help
todo.txt  todo.hs x
1 import System.Environment
2 import System.Directory
3 import System.IO
4 import Data.List
5
6 dispatch :: [(String, [String] -> IO ())]
7 dispatch = [("add", add)
8             ,("view", view)
9             ,("remove", remove)]
10
11 main = do
12     (command:args) <- getArgs
13     let (Just action) = lookup command dispatch
14     action args
15
16 add :: [String] -> IO()
17 add [fileName, todoItem] = appendFile fileName (todoItem ++ "\n")
18
19 view :: [String] -> IO()
20 view [fileName] = do
21     contents <- readFile fileName
22     let todoTasks = lines contents
23         numberedTasks = zipWith(\n lines -> show n ++ ". " ++ show lines) [0..] todoTasks
24     putStr $ unlines numberedTasks
25
26 remove :: [String] -> IO()
27 remove [fileName, numberString] = do
28     handle <- openFile fileName ReadMode
29     (tempName, tempHandle) <- openTempFile "." "temp"
30     contents <- hGetContents handle
31     let number = read numberString
32         todoTasks = lines contents
33         newTodoItems = delete (todoTasks !! number) todoTasks
34     hPutStr tempHandle $ unlines newTodoItems
35     hClose handle
36     hClose tempHandle
37     removeFile fileName
38     renameFile tempName fileName
```

详细代码请查看附件 1

二：实验结果：



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

> "
basiccoder@Ubuntu1604:~/Work/Haskell$ ./todo view todo.txt
0. "Iron the dishes"
1. "Dust the dog"
2. "Take salad out of the ovenThis is a test line"
3. ""
basiccoder@Ubuntu1604:~/Work/Haskell$ ./todo remove todo.txt 3
basiccoder@Ubuntu1604:~/Work/Haskell$ ./todo add todo.txt "This is a test line"
basiccoder@Ubuntu1604:~/Work/Haskell$ ./todo view todo.txt
0. "Iron the dishes"
1. "Dust the dog"
2. "Take salad out of the ovenThis is a test line"
3. "This is a test line"
basiccoder@Ubuntu1604:~/Work/Haskell$
```

附件：

[1] todo.hs