lab-week-7

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```bash
1   #!/bin/bash
2
3   #assigns the path to the to do list, then checks if the to do list file already exists, and if not then creates a file to host the to do
    list.
4   TODO_FILE="$HOME/.local/share/todos"
5
6   if [[ ! -f "$TODO_FILE" ]]; then
7           touch "$TODO_FILE"
8   fi
9
10  #function to add a list item to the to do list by taking in the argument that will become the new to do and adds it to the to do file.
11  add_list_item() {
12          local list_item="$1"
13          echo "$list_item" >> "$TODO_FILE"
14          echo "Todo added: $list_item"
15  }
16
17  #function to find items within the to list by taking in an argument, then using grep to find list items that contain the argument's
    pattern. If none exist, print error message
18  find_list_item() {
19          local list_item="$1"
20          if grep -i "$list_item" "$TODO_FILE"; then
21                  return 0
22          else
23                  echo "no matching todos :("
24                  return 1
25          fi
26  }
27
28  #if no arguments passed, will show the to dos using less
29  if [[ $# -eq 0 ]]; then
30          if [[ ! -s "TODO_FILE" ]]; then
31           echo "No Todos yet.."
32          else
33                  less "$TODO_FILE"
34                  exit 0
35          fi
36  fi
37
38  #use getopts to handle the options (-n, -s, none)
39  while getopts ":n:s:" opt; do
40    case "${opt}" in
41      n)
42        add_list_item ${OPTARG}
43        ;;
44      s)
45        find_list_item ${OPTARG}
46        ;;
47          :)
48        echo "Error: -${OPTARG} requires an argument"
49        exit 1
50        ;;
51    "?")
52        exit 1
53        ;;
54    esac
55  done
```