

# Data Structure Programming HW2 Screenshots

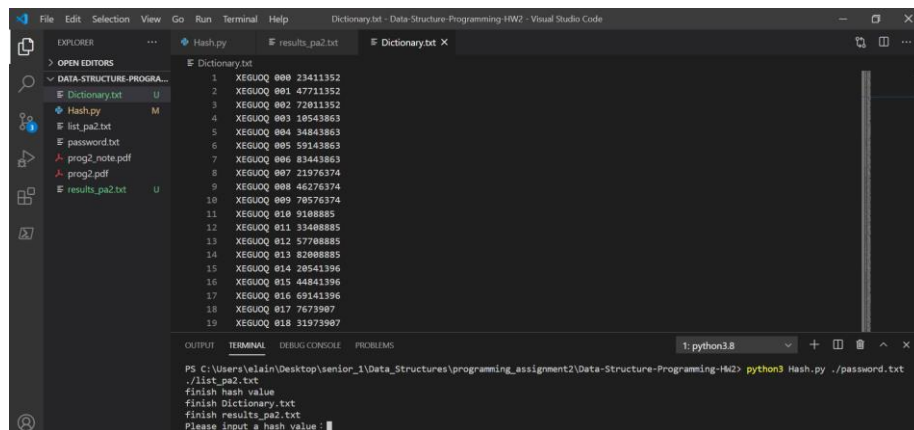
學號：B06901045 系級：電機四 姓名：曹林熹

使用方式：

1. Command line:

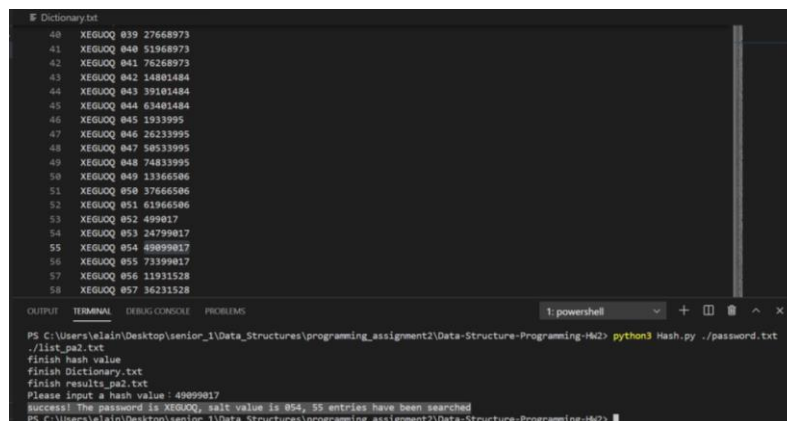
python3 Hash.py <path of password.txt> <path of list\_pa2.txt>

輸出 Dictionary.txt, results\_pa2.txt 於當前資料夾，而使用者接下來可以輸入 hash value 進行 search password。

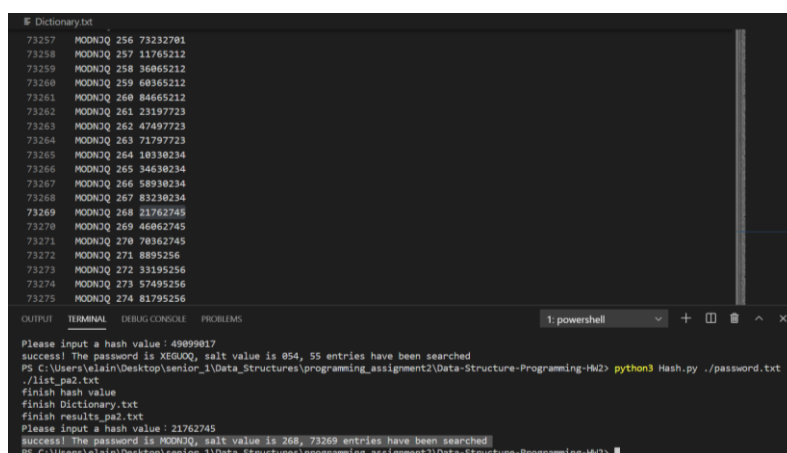


```
File Edit Selection View Go Run Terminal Help Dictionary.txt - Data-Structure-Programming-HW2 - Visual Studio Code
EXPLORER
> OPEN EDITORS
DATA-STRUCTURE-PROGRAMMING-HW2
Dictionary.txt
Hash.py
list_pa2.txt
password.txt
prog2_note.pdf
prog2.pdf
results_pa2.txt
OUTPUT TERMINAL DEBUG CONSOLE PROBLEMS
t: python3.8
PS C:\Users\elain\Desktop\senior_1\Data_Structures\programming_assignment2\Data-Structure-Programming-HW2> python3 Hash.py ./password.txt
./list_pa2.txt
finish hash value
finish Dictionary.txt
finish results_pa2.txt
Please input a hash value :
```

2. 查找成功：

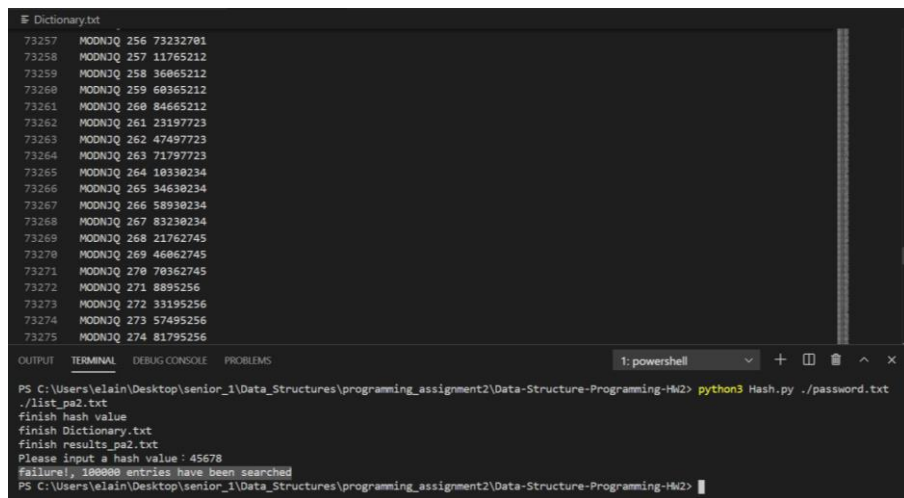


```
Dictionary.txt
40 XEQUOQ 039 27668973
41 XEQUOQ 040 51968973
42 XEQUOQ 041 76268973
43 XEQUOQ 042 14801484
44 XEQUOQ 043 39101484
45 XEQUOQ 044 63401484
46 XEQUOQ 045 1933995
47 XEQUOQ 046 26233995
48 XEQUOQ 047 50833995
49 XEQUOQ 048 74833995
50 XEQUOQ 049 13366506
51 XEQUOQ 050 37666506
52 XEQUOQ 051 61966506
53 XEQUOQ 052 499017
54 XEQUOQ 053 24799017
55 XEQUOQ 054 49099017
56 XEQUOQ 055 73399017
57 XEQUOQ 056 11931528
58 XEQUOQ 057 36231528
OUTPUT TERMINAL DEBUG CONSOLE PROBLEMS
t: powershell
PS C:\Users\elain\Desktop\senior_1\Data_Structures\programming_assignment2\Data-Structure-Programming-HW2> python3 Hash.py ./password.txt
./list_pa2.txt
finish hash value
finish Dictionary.txt
finish results_pa2.txt
Please input a hash value : 49099017
success! The password is XEQUOQ, salt value is 054, 55 entries have been searched
PS C:\Users\elain\Desktop\senior_1\Data_Structures\programming_assignment2\Data-Structure-Programming-HW2>
```



```
Dictionary.txt
73257 MOONIQ 256 73232701
73258 MOONIQ 257 11765212
73259 MOONIQ 258 36065212
73260 MOONIQ 259 60365212
73261 MOONIQ 260 84665212
73262 MOONIQ 261 23197723
73263 MOONIQ 262 47497723
73264 MOONIQ 263 71797723
73265 MOONIQ 264 10330234
73266 MOONIQ 265 34630234
73267 MOONIQ 266 58930234
73268 MOONIQ 267 83230234
73269 MOONIQ 268 21762745
73270 MOONIQ 269 46062745
73271 MOONIQ 270 70362745
73272 MOONIQ 271 94662745
73273 MOONIQ 272 33195256
73274 MOONIQ 273 57495256
73275 MOONIQ 274 81795256
OUTPUT TERMINAL DEBUG CONSOLE PROBLEMS
t: powershell
Please input a hash value : 49099017
success! The password is XEQUOQ, salt value is 054, 55 entries have been searched
PS C:\Users\elain\Desktop\senior_1\Data_Structures\programming_assignment2\Data-Structure-Programming-HW2> python3 Hash.py ./password.txt
./list_pa2.txt
finish hash value
finish Dictionary.txt
finish results_pa2.txt
Please input a hash value : 21762745
success! The password is MOONIQ, salt value is 268, 73269 entries have been searched
PS C:\Users\elain\Desktop\senior_1\Data_Structures\programming_assignment2\Data-Structure-Programming-HW2>
```

### 3. 查找失敗：



The image shows a VS Code editor with a file named `Dictionary.txt` open. The file contains a list of hashes, each preceded by the text `MOONIQ`. The hashes are 10-digit hexadecimal strings. Below the editor, a terminal window is open, showing the execution of a Python script named `Hash.py`. The script outputs several messages, including `finish hash value`, `finish Dictionary.txt`, and `finish results ps2.txt`. It then prompts the user to input a hash value. The user has entered `45678`, and the script outputs `failure!, 100000 entries have been searched`, indicating that the hash was not found in the dictionary.

```
Dictionary.txt
73257 MOONIQ 256 73232701
73258 MOONIQ 257 11765212
73259 MOONIQ 258 36065212
73260 MOONIQ 259 60365212
73261 MOONIQ 260 84665212
73262 MOONIQ 261 23197723
73263 MOONIQ 262 47497723
73264 MOONIQ 263 71797723
73265 MOONIQ 264 10330234
73266 MOONIQ 265 34630234
73267 MOONIQ 266 58930234
73268 MOONIQ 267 83230234
73269 MOONIQ 268 21762745
73270 MOONIQ 269 46062745
73271 MOONIQ 270 70362745
73272 MOONIQ 271 8895256
73273 MOONIQ 272 33195256
73274 MOONIQ 273 57495256
73275 MOONIQ 274 81795256

OUTPUT TERMINAL DEBUG CONSOLE PROBLEMS
1: powershell
PS C:\Users\elain\Desktop\senior_1\Data_Structures\programming_assignment2\Data-Structure-Programming-Hw2> python3 Hash.py ./password.txt
./list_ps2.txt
finish hash value
finish Dictionary.txt
finish results ps2.txt
Please input a hash value : 45678
failure!, 100000 entries have been searched
PS C:\Users\elain\Desktop\senior_1\Data_Structures\programming_assignment2\Data-Structure-Programming-Hw2>
```