

IS1111 Tutorial 4 - Dictionaries

1) Basic Dictionary Operations

We store student usernames and their login counts

- a. Add the following logins:

- o Katie logs in once
- o Ben logs in twice
- o Ciara logs in once

Print the dictionary

- b. Ben logs in again. Update his count.
- c. Print how many logins Katie has.
- d. If a username does not exist, print 0 instead of crashing.
Test using "David".
- e. Check if any user currently has exactly 3 logins.

2) Dictionary as Counters

```
ratings = [  
    "Inception", "Avatar", "Inception",  
    "Matrix", "Avatar", "Inception",  
    "Matrix", "Avatar"  
]
```

- a. Count how many ratings each movie has received.
- b. Print each movie and its count (one per line).
- c. Print the number of different movies rated.

3) Finding the Maximum Value

```
orders = "tea coffee tea juice coffee tea water coffee"
```

- a. Count how many times each drink appears.
- b. Find the most popular drink.
- c. Print drinks ordered more than once.

4) Dictionary and Files

Each line in a file looks like:

```
From john.smyth@gmail.com Sat Jan 5 09:14:16 2008
```

The day is the third word.

- a.** Write a program that counts how many emails are sent each day.
 - b.** Print the busiest day.
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