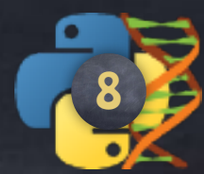
step5.py

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-

# ========================================
# Find and print the best movie per category
# ========================================

with open('250.imdb', 'r', encoding='utf-8') as f:

    # For each category, I keep the best rating
    # Mapping { key: value } where   key = string
    #                              value = int
    categories = {} # Nothing at the start

    for line in f:

        if line.startswith('#'): # Not interested
            continue

        # Get the fields as a list of strings
        fields = line.split('|')

        # Rename the fields, cuz I prefer, and convert them
        rating = float(fields[1])
        genres = fields[-2].lower().split(',') # List of strings also

        for genre in genres:
            old_rating = categories.get(genre, 0.0) # No KeyError

            if rating > old_rating: # found a better one
                categories[genre] = rating


    # Print the categories
    for genre,rating in categories.items():
        print("The best movie for",genre,"has rating:",rating)
```

```
U:---   step5.py       All L1      (Python +2 MMM) 19:21 1.08
Use +,-,0 for further adjustment
```



tmux new-session -A -s main

```
[~/tmp] (vt17) $ python step5.py
The best movie for war has rating: 8.6
The best movie for thriller has rating: 9.0
The best movie for music has rating: 8.5
The best movie for horror has rating: 8.5
The best movie for biography has rating: 9.0
The best movie for history has rating: 8.9
The best movie for fantasy has rating: 8.9
The best movie for sport has rating: 9.0
The best movie for comedy has rating: 8.8
The best movie for mystery has rating: 8.6
The best movie for western has rating: 8.9
The best movie for drama has rating: 9.3
The best movie for sci-fi has rating: 8.8
The best movie for film-noir has rating: 8.5
The best movie for family has rating: 8.6
The best movie for musical has rating: 8.6
The best movie for crime has rating: 9.3
The best movie for historical has rating: 8.1
The best movie for romance has rating: 8.6
The best movie for adventure has rating: 8.9
The best movie for action has rating: 9.0
The best movie for animation has rating: 8.6
[~/tmp] (vt17) $
```

molcellbio161:main bash * 19:03 Tue, Feb 7, 2017