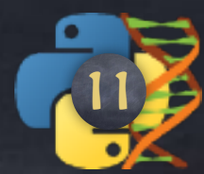
step7.py

```
#!/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,string)
    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])
        title = fields[-1].strip() # Clean the title
        genres = fields[-2].lower().split(',') # List of strings also

        for genre in genres:
            genre = genre[:6]
            old_rating,old_title = categories.get(genre, (0.0,'') ) # No KeyError

            if rating > old_rating: # found a better one
                categories[genre] = (rating, title)


    # Print the categories
    for genre,value in categories.items():
        print("The best movie for",genre,'\n\tis"',value[1],'"\n\tand has rating:',value[0])
```

U:--- step7.py All L1 (Python +2 MMN) 19:20 1.25
Use +,-,0 for further adjustment



tmux new-session -A -s main

```
        is " The Dark Knight "
        and has rating: 9.0
The best movie for comedy
        is " Forrest Gump "
        and has rating: 8.8
The best movie for wester
        is " The Good, the Bad and the Ugly "
        and has rating: 8.9
The best movie for sport
        is " Dangal "
        and has rating: 9.0
The best movie for animat
        is " Spirited Away "
        and has rating: 8.6
The best movie for crime
        is " The Shawshank Redemption "
        and has rating: 9.3
The best movie for biogra
        is " Dangal "
        and has rating: 9.0
The best movie for music
        is " Like Stars on Earth "
        and has rating: 8.5
The best movie for fantas
        is " The Lord of the Rings: The Return of the King "
        and has rating: 8.9
[~/tmp] (vt17) $
```

molcellbio161:main bash * 19:11 Tue, Feb 7, 2017