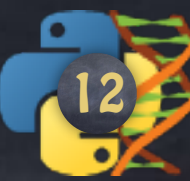


```
tmux new-session -A -s main
    is " The Dark Knight "
    and has rating: 9.0
The best movie for comedy
    is " Forrest Gump "
    and has rating: 8.8
The best movie for wester
    is " The Good, the Bad and the Ugly "
    and has rating: 8.9
The best movie for sport
    is " Dangal "
    and has 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



```
#!/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,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:
            key = genre[:6]
            old_rating,old_title,old_genre = categories.get(key, (0.0,'','')) # No KeyError

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

    # Print the categories
    for (rating,title,category) in categories.values():
        print("The best movie for",category,'\n\tis "',title,'" \n\tand has rating:',rating)
```