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#!/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)
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tmux new-session -A -s main

    is " Life Is Beautiful "
    and has rating: 8.6
The best movie for Action
    is " The Dark Knight "
    and has rating: 9.0
The best movie for History
    is " Amadeus "
    and has rating: 8.3
The best movie for Horror
    is " Alien "
    and has rating: 8.5
The best movie for Animation
    is " Spirited Away "
    and has rating: 8.6
The best movie for Musical
    is " Sholay "
    and has rating: 8.4
The best movie for Fantasy
    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 Biography
    is " Amadeus "
    and has rating: 8.3
[~/tmp] (vt17) $
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molcellbio161:main	bash *	19:16	Tue, Feb 7, 2017
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