

15.1 Portfolio Project 2

Portfolio projects are designed to showcase your problem-solving and coding abilities to future employers, mentors, supervisors, etc. You will translate the given specifications into a coded solution.

Due: Nov. 3, 2023 11:59 pm

Late submissions: -10% if submitted by November 4th 11:59 pm, -20% if submitted by November 5th 11:59 pm

No submissions will be accepted after 11:59 pm on November 5th. No extensions or replacement assessments will be given.

Learning Outcomes:

- Accept and validate user input through varied menu options
- Process data according to specifications
- Iterate through varied values using compound data types
- Manipulate compound data types
- Print formatted output according to given specifications

Specifications:

Every year, organizations across the movie industry present awards for excellent movies from the previous year. For your second portfolio project, you are being asked to design a terminal-based application for searching and printing award information based on given input information. Your application must meet the following design specifications:

- Your user interface should prompt the user to input the following information:
 - Select 1 to search for a movie title
 - Select 2 to search for a specific awards organization
 - Select 0 to end the program
- Menu option 1: If the user selects 1, they should then be asked to enter a movie title
 - As long as the title is spelled correctly, your program should accept any combination of letter cases and leading/trailing whitespace (e.g. both "Lord of the Rings" and " lOrD oF the RinGS " should be valid
 - You do not need to consider extra whitespace in the middle of the string
 - Your program should then output the total number of awards won by that movie across all of the organizations listed in the data file
 - If the movie title is not included in any of the awards list, the total printed is zero
 - After printing the total, return to the first menu input prompt

- Menu option 2: If the user selects 2, they should then be asked to choose from a list of awards organizations
 - As long as the organization acronym is spelled correctly, your program should accept any combination of letter cases and leading/trailing whitespace (e.g. both "Oscars" and "osCarS " should be valid)
 - You do not need to consider extra whitespace in the middle of the string
 - Your program should then print all of the winning movies chosen by that organization, with each title on a new line
 - If the entered organization cannot be found, print a notification message
 - After printing, return to the first menu input prompt
- Menu option 0: If the user selects 0, print the goodbye message and end the program
- If the user enters a value other than 0, 1, or 2, they should be prompted to try again
- The program should continue to prompt for input until the user enters 0
- Your user interface must exactly match the given screenshot below. Pre-coded strings are provided in the starter template to help with exact formatting.
- Your file should be called "awards.py". A starter template is provided in the VS Code environment window.
- The data to be used is provided in a second .py file called "awards_data.py". You should not modify this file. Both files must be located in the same directory.
 - You may not hardcode (manually add into the code) any data values beyond those given in the data section. The data lists may be changed for testing.
- A screenshot with example terminal behaviour is included below the rubric.
- Your code must include and use at least two user-defined functions
 - The function stubs are provided in the given template- you must use the given name and argument structure
 - Your functions may not access global variables aside from those presented in the data section
 - count_awards accepts the movie title as a string and must return an integer value of the total award count
 - print_award_winners accepts the name of the organization as a string and does not return any values
 - All functions must include docstring documentation
- Your code must follow the conventions discussed so far in the course (names_with_underscores, four spaces for indentations, spaces between variables/operators, comments throughout, etc.).
- You may only use built-in Python functions that support compound data structures, user entry, or casting (such as len(), input() or int()). You may not import any modules beyond the given data file.

Assessment Submission:

The final submitted file must be named awards.py and must be contained in the same directory as the provided data. You may choose to code in a different IDE, but make sure you copy the given template

code and that your final submission is done through this zyLabs section. You may modify and resubmit your code as many times as you'd like before the deadline.

No automatic tests will be available until October 25th. You should debug/test your code via the terminal and determine the intended execution on your own. After October 25th, you must press **"Submit for grading"** at least once to receive a mark for execution. At that time, you will see some tests performed against your code- this is only part of your grade. The remaining elements will be graded manually by a TA. A detailed rubric is provided at the end of this page.

Frequently asked questions/answers will be provided via the D2L discussion boards. You should double-check your solution against the answers posted there before submitting.

LAB
ACTIVITY

15.1.1: Portfolio Project 2 Submission



28 / 30



Submit for grading

Coding trail of your work [What is this?](#)

11 / 3 F 12 , 12 , 12

Latest submission - 11:16 PM MDT on 11/03/23

Total score: 28 / 30

☐ Only show failing tests[Open submission's code](#)

1: Commenting and Syntax ^

©zyBooks 12/22/23 15:32 1858163

Ibrahim Khalid 6 / 7

UCALGARYENDG233LabsMarascoFall2023

This is a manual score.

Comment

```
The handling of string case in count_awards
(converting to uppercase) and
print_award_winners (converting to lowercase)
is inconsistent. This might lead to issues if
the case of the input strings doesn't match
the case of the strings in the data lists.
```

2: Valid Movie Title with Varied Case/Whitespace ^

100 / 100

This test checks to see whether your program will output the correct award count for a given movie title with varied case and whitespace.

 This test case's results were hidden by the instructor

3: Input Value of 1 ^

100 / 100

This test checks to see whether your program will correctly prompt for a movie title when you enter a menu value of 1.

 This test case's results were hidden by the instructor

4: Invalid Movie Title ^

100 / 100

This test checks to see whether your program will output 0 for a movie title that does not exist.

 This test case's results were hidden by the instructor

©zyBooks 12/22/23 15:32 1858163

Ibrahim Khalid

UCALGARYENDG233LabsMarascoFall2023

5: Valid Movie Title ^

100 / 100

This test checks to see whether your program will output the correct award count for a given movie title.

 This test case's results were hidden by the instructor

6: Input Value of 2 ^

100 / 100

This test checks to see whether your program will correctly prompt for an awards list name when you enter a menu value of 2.

 This test case's results were hidden by the instructor

7: Invalid Awards Organization ^

100 / 100

This test checks to see whether your program will output the required error message for an awards organization that cannot be found.

 This test case's results were hidden by the instructor

8: Input Value of 0 ^

100 / 100

This test checks to see whether your program will correctly end when you enter a menu value of 0.

 This test case's results were hidden by the instructor

9: Valid Awards Organization with Varied Case/Whitespace ^

100 / 100

This test checks to see whether your program will output the correct movie titles for a given awards organization with varied case/whitespace.

 This test case's results were hidden by the instructor

10: Repeated Testing of Award Count ^

100 / 100

This test checks to see whether your program will output the correct award count for given movie titles multiple times in a row.

 This test case's results were hidden by the instructor

11: Valid Awards Organization ^

100 / 100

This test checks to see whether your program will output the correct movie titles for a given awards organization.

 This test case's results were hidden by the instructor

12: Repeated Testing of Organization Print ^

100 / 100

This test checks to see whether your program will output the correct titles in an awards list

when multiple organizations are entered in a row.

 This test case's results were hidden by the instructor

13: Full Testing of Menu ^

100 / 100

This test checks to see whether your program will output the expected behaviour with all menu inputs (0, 1, 2, varied cases/whitespace, etc.).

@zyBooks 12/22/23 15:32 1858163
Ibrahim Khalid
UCALGARYENDG233LabsMarascoFall2023

 This test case's results were hidden by the instructor

14: Code Structure and Semantics ^

4 / 5

This is a manual score.

Comment

The function `print_award_winners` has an off-by-one error in its indexing logic. The variable `counted_movie` should not be used for indexing `award_list_options`. It could lead to incorrect results or an index error if the input is not found.

15: User Interface and Functionality ^

6 / 6

This is a manual score.

Comment *Not specified*

16: 1 Day Late (-10%) ^

0 / -3

This is a manual deduction.

Your instructor hasn't graded this test yet.

17: 2 Days Late (-20%) ^

0 / -6

This is a manual deduction.

Your instructor hasn't graded this test yet.

Previous submissions

@zyBooks 12/22/23 15:32 1858163
Ibrahim Khalid
UCALGARYENDG233LabsMarascoFall2023

9:47 AM on 11/3/23

12 / 30

[View](#) ^

12:24 PM on 11/3/23

12 / 30

[View](#) ^

Portfolio Project 2 Rubric

30 marks, 13% of overall grade

Your code must successfully run for the execution to be graded. Partial marks may be given for each criterion listed below.

©zyBooks 12/22/23 15:32 1858163
Ibrahim Khalid
UCALGARYENDG233LabsMarascoFall2023

Commenting and Syntax (7 marks):

- (1) Your name must be included in the file header
- (2) Comments must be included throughout the code to explain the functionality
- (2) All functions are fully documented using docstrings (including summary, parameters, and return values)
- (1) All variables and functions have clear and useful names that use lowercase words separated by an underscore
- (1) Code is clearly indented and spaces are included between variables and operators

One mark will be deducted for each error or missing component, up to a maximum of 7 marks

Code Structure and Semantics (5 marks):

- (2) Solution contains at least two user-defined functions that are outlined as above
- (2) No values are hardcoded beyond the given data values
- (1) Functions do not access global variables beyond the given data values

One mark will be deducted for each error or missing component, up to a maximum of 5 marks

User Interface and Functionality (6 marks):

- (1) Program runs continuously until the user chooses to end
- (1) Program allows the user to choose between menu options
- (1) Program checks that the menu input is valid
- (1) Program input accepts any letter case and trailing/leading whitespace
- (1) Program notifies the user if the provided awards organization cannot be found
- (1) The program output follows the required format

©zyBooks 12/22/23 15:32 1858163
Ibrahim Khalid
UCALGARYENDG233LabsMarascoFall2023

One mark will be deducted for each error or missing component, up to a maximum of 6 marks

Execution (12 marks):

Example execution behaviour is provided in the screenshot below for your reference. Your interface must match exactly.

Your program will be run against a variety of test cases, including:

- a) each menu input number, b) a given movie title, c) a given movie title with varied letter case and leading/trailing whitespace, d) an unlisted movie title, e) an unlisted awards organization, f) a listed awards organization, g) a listed awards organization with varied letter case and leading/trailing whitespace, h) setup and expected behaviour of the count function, i) setup and expected behaviour of the print function.

All students will have their code tested with the same input values.

Execution will be graded automatically through zyLabs.

Figure 15.1.1: Execution Behaviour

©zyBooks 12/22/23 15:32 1858163
Ibrahim Khalid
UCALGARYENDG233LabsMarascoFall2023

ENDG 233 Awards Data Program

Select 1 to search a specific movie, 2 to print specific rewards results, 0 to end: 1
Please enter the movie title you would like to search: Everything Everywhere All at Once
--Number of Awards Won--
7

Select 1 to search a specific movie, 2 to print specific rewards results, 0 to end: 1
Please enter the movie title you would like to search: everything everywhere all at once
--Number of Awards Won--
7

Select 1 to search a specific movie, 2 to print specific rewards results, 0 to end: 2

Please choose one of the following awards lists:

Oscars
SAG
NBR
ISA
GLAAD
NAACP

SAG
--Requested Award Winners--
Everything Everywhere All at Once
Top Gun: Maverick

Select 1 to search a specific movie, 2 to print specific rewards results, 0 to end: 2

Please choose one of the following awards lists:

Oscars
SAG
NBR
ISA
GLAAD
NAACP

sag
--Requested Award Winners--
Everything Everywhere All at Once
Top Gun: Maverick

Select 1 to search a specific movie, 2 to print specific rewards results, 0 to end: 0
Thank you for using the awards data program.

©zyBooks 12/22/23 15:32 1858163
Ibrahim Khalid
UCALGARYENDG233LabsMarascoFall2023