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CIS 18A
Final Project

Final Project Documentation
Pseudocode

1. Write pseudocode for the program. Be sure to include conditional branching, input, output and all program operations. See <u>How To Write PseudocodeLinks to an external site.</u>
   . Submit a document that contains pseudocode. (40 points)

Pseudocode

<u>Two interfaces</u>
showData and getData
getData - methods void userChoice() and void receipt()
- Allow user to select choices and return a receipt of those choices
showData - methods void movieOptions() and void dateOptions();
- Show the user options for movies and deliveries

<u>Two classes to implement</u>
movieInfo
Holds string variables - each is an array
- String movies - array, 8 movies to select from (TBA)
- String delivery dates - array, 5 days of the week to choose from (M-F)
- String delivery times - array, 6 times to choose (1-6 PM)
userInfo
Holds String variables
- String first name
- String last name
- String address

Main method within our main class
Display welcome message "Welcome to Virus VHS Rentals!"
Display next line "Please take a look at our movie selection…"
Access object for movieInfo to display movieOptions method
List out movie selection
Allow user choice - user input, type in a number that is correlated to a movie
Select movie
Display user data - what movie they chose
End user selection for movie
Access object for movieInfo to display dateOptions method
Next line, display next prompt "What day would you like your movie delivered by?"
Display several options (M-F, store these in another array)
Allow user choice - user input, type in a number that is correlated to a day
Select day

Display user data - what day they picked
End user selection for day
Access object for movieInfo to get local time method
Next line, display prompt "Please pick a time frame for us to deliver your movie"
Display times for user selection (Times 1-6 PM)
Select time - input a number to select a specific time frame
End user selection for time

Access object for movieInfo to get receipt method
Access object for userInfo to get to receipt method
Display prompt for input regarding first and last name + address from the user
(We'll use this as a part of their receipt)
Get user input in the form of strings
End user input for receipt
Display receipt message ("Thank you for shopping with us, here is your receipt")
Output receipt showing user input from each selection (address, name, movie choice, delivery date)
End program

Classes
Two classes that will implement our interfaces

Class movieInfo
Implement both interfaces, showData, getData
Reiterate arrays (movie, date, time arrays)
Show input variables to assign to our String inputs
For loops for displaying our options
- Movie
- Date
- Time
Implement method userChoice
Scanner info to prompt for movie choice
Assign reference variable to input to refer to in receipt
Display message "Select your movie choice"
Switch statements for each potential input
- To display the user's input back at them
End method

New local method delivery within movieInfo class
Scanner info to prompt for date choice
Assign reference variable for input
Display message "Select your delivery date"
Switch statements for potential input
End method

New local method time within movieInfo class
Scanner info to prompt for time choice
Assign reference variable for input
Display message "Select your delivery time"
Switch statements for potential input
End method

Method receipt
Output "Movie"
Output our reference to the user's input for movie
Output "Delivery Date"
Output our reference to the user's input for delivery date
Output "Delivery Time"
Output our reference to the user's input for delivery time

End class movie Info

Class userInfo
Implements the interface getData
Reiterates our Strings (first, last names, address)
Implements the userChoice method
Scanner info to get input
Display message "Input your first name"
Display message "Input your last name"
Display message "Input your address"
User inputs selected information
Utilize receipt() method to store our info
Display information in receipt form
End of userInfo class