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| NEA Practice Task |
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**NEA Practic­­­­­­­­­­e Task**

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## Analysis

### Abstraction

In this task I have been asked to collect data from a user on a streaming site and store it. Then store the past 10 films they have watched and suggest the next film they should watch based on the genre of the past 10 they have watched.

### Requirements

* Ask them for all of their data and store it in a file (Account Set-up)
* Check that the password entered has at least one capital letter and one number
* Read the films that the customer has last viewed
* Work out the most watched genre (using a 2D list)
* Look at the list of film genres with films
* Make a recommendation of a film that is in the most watched genre of the user
* Ask them if they want to watch it or not

### Decomposition

Each of the above problems are decomposed below:

* Ask them for all of their data and store it in a file (Account Set-up)
  + Give an input field for the user to input the relevant data
  + Checks the password is allowed
  + Outputs the data they have just entered and asks them to enter if it is correct or not
  + Generate a random set of numbers which will be used to identify the user
  + Keep the user ID in a variable which is stored globally
  + Write the users inputted data to a file
* Read the films the user has recently viewed
  + Views the previously created file and reads the past 10 films that have been seen
  + Each film has a genre code the code will check how many times the genre ‘code’ appears in the list of films
* Make a recommendation
  + Use the genre code that appears the most to read in from another file the film that is recommended for that genre code
  + Output the film name with an option to see if they want to watch it or not

### Success Criteria

The solution that I create should:

* Ask the user to enter their data and make sure that it is correct
* Store their data in a separate file
* Read a file in order to see their recently watched films and to recommend a film
* Output to the user and ask for a input

### Inputs, outputs and data

Output- Please enter your name – variable “name”

Output- Please enter your address – variable “address”

Output- Please enter your date of birth – variable “dob”

Output- Please enter your gender – variable “gender”

Output – Please enter your password – variable “passw” for this I will output it and ask the user to check that it is what they meant to enter then do the checks on if it contains the necessary characters

Variable – The unique id that is used by the system to identify the user – “user”

### Test Strategy