

Project 2

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Programming for Design (11055)

Extension due date (04,11,19)

Pseudocode

Create a variable called p1 that opens a html file for writing called project 2.html

Create a variable that holds data that will start and end the html head and start the html body

Create a variable that holds data that will end the html body

Create a variable that Searches the Openlibrary resource for an image

Create a variable that Presents image in Large jpg format

Create an error variable that prints an error message

Create a variable that Opens the ISBN.txt file for reading

Creates a variable named "totallines" that reads each line in the ISBN file

Create a variable named "x" that is always equal the total lines that can be read

If x has the same value as 0 write the error variable in p1

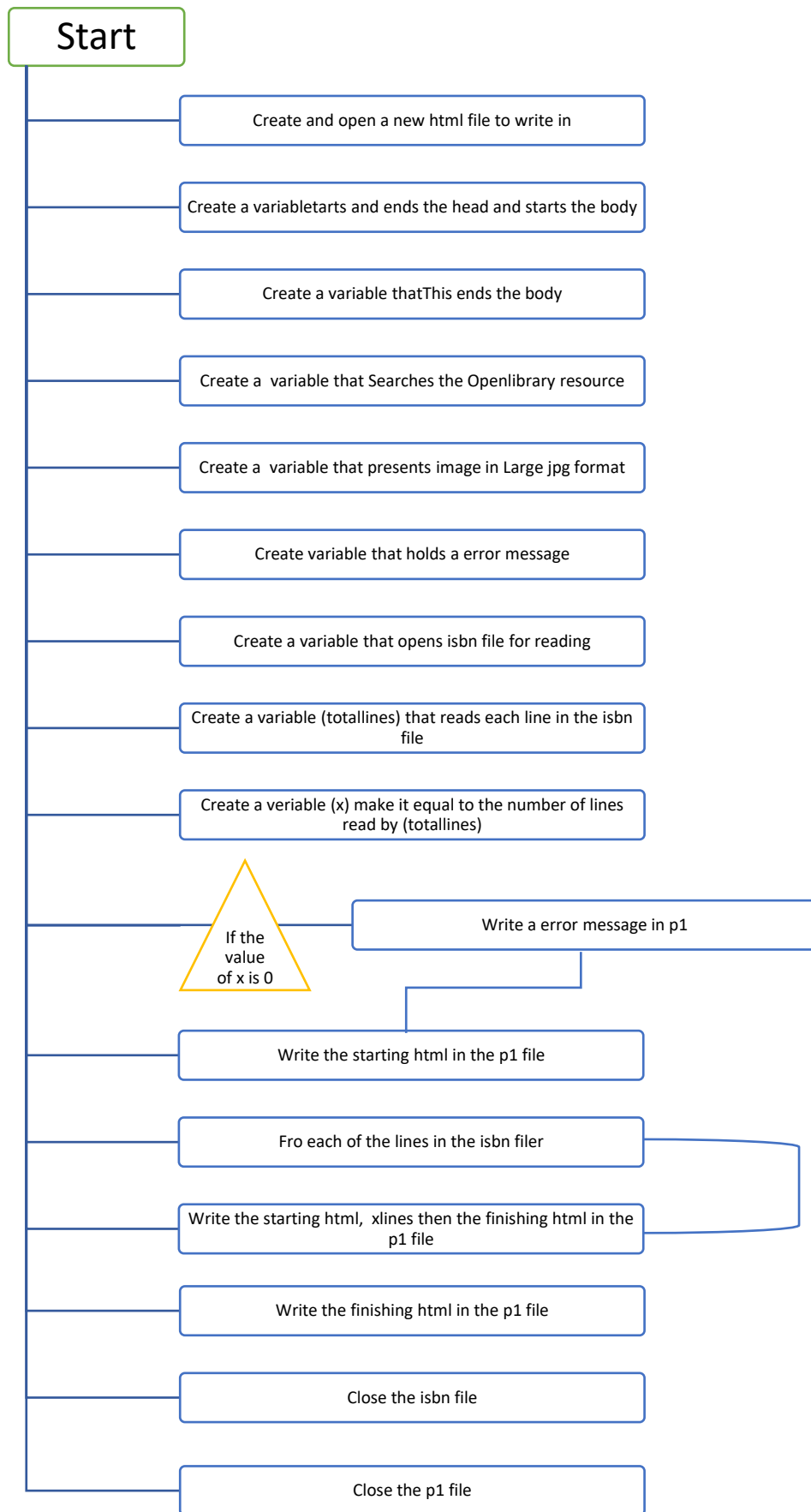
Write the starting html in the p1 file

For each of the lines in the ISBN file reference the variables: 1. That searches the Openlibrary resource for an image. 2. That dose this for each line (xlines) 3. That presents each image in Large jpg format.

Write the finishing html in the p1 file

Close the ISBN file

Close the p1 file



Reflection

My experience while working on this assignment has taught me a lot about python and coding that I did not know before. Writing code is a skill I had not spent a lot of time on before this assignment but something I enjoy and hope to continue practicing. I found the experience of writing a program very fulfilling because every time I finished a part of the program, I could test it and see what I had accomplished. The hardest part of the assignment was trying to get my program to read each line of the isbn.txt file and apply the code given to us by the openlibrary.org resource to each line. I found these resources: <https://www.codevscolor.com/python-count-total-lines-file/> and <https://programminghistorian.org/en/lessons/creating-and-viewing-html-files-with-python> as well as asking questions during class time to solve my most difficult tasks. If I were to improve my program, I would find a way to display the book covers in a neater order and to put my error message in the html body rather than before.

Explaining my program

When my program runs it starts by creating variables to store information that will be used later. This is to keep my code tidy and helps me recycle processes and calculations like counting the number of lines in a file. The program then checks if there are any lines in the isbn.txt file and if the number is 0 an error message will be printed in the html file. The program's next step is to start to structure the html file. Using a recycled variable (totallines): the program for every line of (totallines) searches openlibrary.org for an ISBN. If the numbers are working ISBNs: a book cover jpg in a large format will be displayed in the html file for each book identified by their ISBN. The process of searching openlibrary.org and displaying the cover books was sourced from: [\[https://openlibrary.org/dev/docs/api/covers\]](https://openlibrary.org/dev/docs/api/covers) and was provided to us at the beginning of our assignment. The program then finishes structuring the html, closes the ISBN file and closes the html file so it cannot be read or written in anymore.