Program 6

Algorithm

CS 101

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**Algorithm**

* Imports
  + Os
  + Glob
  + Image
* Set variables
  + Empty list
* Greeting
  + ‘Welcome to the image slicer. You can provide a directory that has several images of the same size, and this program will take equal vertical slices out of each and construct a new image.’
* Set master loop
* Functions
* Ask for which directory needs to be opened (get input)
  + ‘Enter a directory that contains valid image files’
    - Try and except
    - Use ‘r’ to read file, encoding = utf-8
* Set path to variable, use glob and os to open only .ppm files and as each is opened, append it to a list called input\_files
* Prompt user for output file and use ‘w’ to write to directory, add on ‘.ppm’, include to check for the correct resolution for each picture
  + Try/except
* Check for valid header (first line P3, second line 225)
* Create a list to store each red, green and blue value
  + Make sub lists if needed to hold all the values taken
* Or keep all of the color values in a list, inside of a master list
* Use sorted function to order all the picture file names into order the order process of each image is taken in.
* Close all files that have been opened
  + .close() method
* Exit/close program
* Extra Credit:
  + Ask user for input:
    - Slice a PPM file.
    - Slice a Jpg Image
    - Quit
  + Try and except for correct/ wrong input till 1,2,3 is chosen as their file choice or to exit.