**Project 7 Coin Project with OpenCV**

[Project 7 Coin Project with OpenCV](https://fcps.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_1516674_1&content_id=_44800281_1&mode=reset)

Turn in code called l071.cpp, for reading in a .jpg file of a collection of coins and outputting the dollar value of the coins.  
   
In order to visualize and test the result of your application do the following:  
- read from the file called image.jpg, create the grayscale, detect edges using the cannyedge  
- identify the centers and radiuses using OpenCV and hough transform  
- create imagec.jpg : the original image with the circles you identified drawn in red over the image (you may draw 3 circles with radiuses r, r+1, r+2 to make it more bold and easier to see on the image). You may also use different colors for the coins you identified. You aim to have a circle drawn for each coin  
- display on the screen and also save in the file results.txt a summary of the coins you found (Ex: 10 quarters, 5 dimes,... Total sum: $10.50)  
So after running your application 2 files will be created imagec.jpg, results.txt containing the information explained above

Also complete the following file:

[Project 7 Coin Detection with OpenCV.docx](https://fcps.blackboard.com/bbcswebdav/pid-44800311-dt-content-rid-50705032_2/xid-50705032_2) [Project 7 Coin Detection with OpenCV.docx - Alternative Formats](https://fcps.blackboard.com/webapps/blackboard/content/listContent.jsp?course_id=_1516674_1&content_id=_44800281_1&mode=reset)

**and display in it the results you obtained by applying your algorithm to all 3 images provided**.

Your code must work on all 3 images.

You may test your code against any piece/part of the 3 images

Due date 2021/05/05