READ ME

1) Download the Directory “The_Chaincoders”
   a) It consists of an "./image” folder which already has 8 images in our dataset.
2) Prerequisites :
   i) Jupyter Notebook
   ii) cv2
   iii) numpy
   iv) matplotlib
   v) Sklearn
3) Running the Python Notebook
   a) The python notebook file is named as ‘Cookie_Challenge_THE_CHAINCODERS.ipynb’. Run the file on the jupyter notebook.
   b) The last cell in the notebook has function calls to all other functions above.
   c) Image acquisition code is commented for testing purposes.
   d) To read a particular image just change the value of the ‘i’ variable in the main cell. (it can be taken from the user also but in a real-time production environment it will be automated as it will read newly captured images).
   e) Subsequent function calls are made to evaluate all parameters.
   f) Minimum numbers of choco chips are taken as input parameters from the user.
   g) Following is given as output (values+images)
      1. Diameter of the cookie.
      2. Number of chocolate chips present.
      3. Hex codes of top 3 colors in the cookie.
      4. Detecting damaged cookies, cracked or broken edges.