INSTALLING OF OPEN CV ON RASPBERRY PI

#Check whether the python version above 3.8 exists or not, if not present, download python version by going to official website.

These are the commands which are used for installing OpenCV and get started with it,

- sudo nano/etc/dphys-swapfile

- Comment or use # in the place of

  CONF_SWAPSIZE=100

  CONF_SWAPSIZE=2048

- 1. sudo apt-get install build-essential cmake pkg-config

  2. sudo apt-get install libjpeg-dev libtiff5-dev libjasper-dev libpng12-dev

  3. sudo apt-get install libavcodec-dev libavformat-dev libswscale-dev libv4l-dev
  4. sudo apt-get install libxvidcore-dev libx264-dev
  5. sudo apt-get install libgtk2.0-dev libgtk-3-dev
  6. sudo apt-get install libatlas-base-dev gfortran

- 1. sudo apt-get install python3-dev
  2. sudo apt-get install python3-pip

- 1. wget -O opencv.zip https://github.com/opencv/opencv/archive/4.1.0.zip
  2. wget -O opencv_contrib.zip
  https://github.com/opencv/opencv_contrib/archive/4.1.0.zip
  3. unzip opencv.zip
  4. unzip opencv_contrib.zip

- sudo pip3 install numpy

- 1. cd ~/opencv-4.1.0
  2. mkdir build
  3. cd build
  4. cmake -D CMAKE_BUILD_TYPE=RELEASE \
   -D CMAKE_INSTALL_PREFIX=/usr/local \
   -D INSTALL_PYTHON_EXAMPLES=ON \
   -D OPENCV_EXTRA_MODULES_PATH=~/opencv_contrib-4.1.0/modules \
   -D BUILD_EXAMPLES=ON ..

- make -j4(This step will take time…)

- sudo make install && sudo ldconfig

- sudo reboot

  ==>