**Image Preprocessing**

**IBM Project Name: Real-Time Communication System Powered by AI for Specially Abled**

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In [10]:

**from** tensorflow.keras.preprocessing.image **import** ImageDataGenerator

In [11]:

*# Training Datagen*

train\_datagen **=** ImageDataGenerator(rescale**=**1**/**255,zoom\_range**=**0.2,horizontal\_flip**=True**,vertical\_flip**=False**)

*# Testing Datagen*

test\_datagen **=** ImageDataGenerator(rescale**=**1**/**255)

In [12]:

**import** tensorflow **as** tf

**import** os

**from** tensorflow.keras.models **import** Sequential

**from** tensorflow.keras.layers **import** Dense, Conv2D, Flatten, Dropout, MaxPooling2D

**from** tensorflow.keras.preprocessing.image **import** ImageDataGenerator

**import** numpy **as** np

**import** matplotlib.pyplot **as** plt

**import** IPython.display **as** display

**from** PIL **import** Image

**import** pathlib