TEST THE MODEL

```
!unzip '/content/drive/MyDrive/IBMPROJECT/conversation engine for deaf and
dumb.zip'
In [1]:
from tensorflow.keras.models import load model
from tensorflow.keras.preprocessing import image
import numpy as np
import cv2
In [8]:
model = load model('/content/Real time.h5')
img = image.load img('/content/Dataset/test set/H/107.png',target size =
(100, 100)
img
Out[9]:
In[10]:
from skimage.transform import resize
def detect(frame):
    img=image.img_to_array(frame)
   img = resize(img, (64, 64, 1))
   img = np.expand dims(img,axis=0)
   pred=np.argmax(model.predict(img))
   op=['A','B','C','D','E','F','G','H','I']
   print("THE PREDICTED LETTER IS ", op[pred])
                                                                  In [11]:
img=image.load img("/content/Dataset/test set/H/107.png")
detect(img)
THE PREDICTED LETTER IS H
                                                                  In [12]:
img = image.load img('/content/Dataset/test set/A/110.png')
pred=detect(img)
1/1 [======] - 0s 23ms/step
THE PREDICTED LETTER IS A
                                                                  In [14]:
img=image.load img('/content/Dataset/test set/F/108.png')
detect(img)
1/1 [======== ] - 0s 25ms/step
THE PREDICTED LETTER IS F
```