TEST THE MODEL

```
!unzip '/content/drive/MyDrive/IBMPROJECT/conversation engine for deaf and dumb.zip'

from tensorflow.keras.models import load_model

from tensorflow.keras.preprocessing import image

import numpy as np

import cv2

model = load_model('/content/Real_time.h5')

img = image.load_img('/content/Dataset/test_set/H/107.png',target_size = (100,100))

img
```

```
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])

img=image.load_img("/content/Dataset/test_set/H/107.png")

detect(img)
```

1/1 [=============================] - 0s 412ms/step

THE PREDICTED LETTER IS H

```
img = image.load_img('/content/Dataset/test_set/A/110.png')

pred=detect(img)
```

1/1 [=============================] - 0s 23ms/step

THE PREDICTED LETTER IS A

img=image.load_img('/content/Dataset/test_set/F/108.png')

detect(img)

1/1 [==============================] - 0s 25ms/step

THE PREDICTED LETTER IS F