TEAM ID	**PNT2022TMID45340**
PROJECT NAME	**Real-Time Communication System Powered by AI for Specially Abled**

```python
import cv2
import numpy as np
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
import os

class Video(object):
        def __init__(self):
                self.video = cv2.VideoCapture(0)
                self.roi_start = (50, 150)
                self.roi_end = (250, 350)
                #self.model = load_model('asl_model.h5') # Execute Local Tr
                self.model = load_model('realtime.h5') # Execute IBM Traine
                self.index=['A','B','C','D','E','F','G','H','I']
                self.y = None
        def __del__(self):
                k = cv2.waitKey(1)

                self.video.release()
        def get_frame(self):
                ret,frame = self.video.read()
                frame = cv2.resize(frame,(640,480))
                copy = frame.copy()
                copy = copy[150:150+200,50:50+200]
                # prediction starts
                cv2.imwrite('image.jpg',copy)
                copy_img = image.load_img('image.jpg', target_size=(64,64,3
                x = image.img_to_array(copy_img)
                x = np.expand_dims(x, axis=0)
                pred = np.argmax(self.model.predict(x), axis=1)
                self.y = pred[0]
                cv2.putText(frame,'The Predicted Alphabet is: '+str(self.in
                ret,jpg = cv2.imencode('.jpg', frame)
                return jpg.tobytes()
```