In [17]:
```
import cv2
import face_recognition as fr
import numpy as np
import datetime
import mysql.connector
```

In [18]:
```
video_cap = cv2.VideoCapture(0)
```

In [19]:
```
img=fr.load_image_file(r"C:\Users\Poorn\OneDrive\Desktop\me.jpg")
```

In [20]:
```
img_face_encoding = fr.face_encodings(img)[0]
```

In [21]:
```
known_face_encodings = [img_face_encoding]
```

In [22]:
```
known_face_names = ["POORNIMA"]
```

In [23]:
```
# Connect to MySQL database
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="28@Poornima",
    database="attendance"
)
today = datetime.date.today().strftime("%d_%m_%y")
cursor = mydb.cursor()
cursor.execute("SHOW TABLES LIKE %s", (today,))
result = cursor.fetchone()
if result is None:
    cursor.execute(f"CREATE TABLE {today} (name VARCHAR(30), time VARCHAR(10))")
    mydb.commit()

cursor.close()
```

Out[23]:
```
True
```

In [24]:
```
while True:
ret, frame = video_cap.read()
if not ret:
    break
rgb_frame = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
fc_locations = fr.face_locations(rgb_frame)
fc_encodings = fr.face_encodings(rgb_frame, fc_locations)
recognized_names = []

for (top, right, bottom, left), face_encoding in zip(fc_locations, fc_encodings):
    matches = fr.compare_faces(known_face_encodings, face_encoding)
    name = "Unknown"

    fc_distances = fr.face_distance(known_face_encodings, face_encoding)
    match_index = np.argmin(fc_distances)
    if matches[match_index]:
        name = known_face_names[match_index]
        recognized_names.append(name)

if len(recognized_names) > 0:
    current_time = datetime.datetime.now().strftime('%H:%M:%S')
    cursor= mydb.cursor()

    for name in recognized_names:
        cursor.execute(f"SELECT * FROM {today} WHERE name = %s", (name,))
        result = cursor.fetchone()

        if result is None:
            sql = f"INSERT INTO {today} (name, time) VALUES (%s,%s)"
            val = (name,current_time)
            cursor.execute(sql, val)
            mydb.commit()

    cv2.rectangle(frame, (left, top), (right, bottom), (0, 0, 255), 2)
    cv2.rectangle(frame, (left, bottom - 35), (right, bottom), (0, 0, 255), cv2.FILLED)
    font = cv2.FONT_HERSHEY_SIMPLEX
    cv2.putText(frame, name, (left +6, bottom -6), font, 1.0, (255, 255, 255), 1)

cv2.imshow('Simple Face Detection', frame)
if cv2.waitKey(1) & 0xFF == ord('q'):
```

```
        break

video_cap.release()
cv2.destroyAllWindows()
```