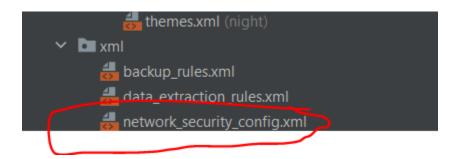
```
activity_form.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:layout margin="20sp"
  tools:context=".MainActivity">
  <LinearLayout
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:layout height="match parent">
    <EditText
       android:id="@+id/t1"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:hint="Enter Name"
       android:inputType="textPersonName"
       android:minHeight="48dp" />
    <EditText
       android:id="@+id/t2"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:hint="Enter Email"
       android:inputType="textEmailAddress"
       android:minHeight="48dp" />
    <EditText
       android:id="@+id/t3"
       android:layout width="match parent"
       android:layout height="wrap content"
       android:hint="Enter Password"
       android:inputType="textPassword"
       android:minHeight="48dp" />
    <Button
       android:id="@+id/SignUpBtn"
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Sign up"/>
</LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```



network_security_config.xml

AndroidMainfest.xml

Refer above pic for adding the code

<uses-permission android:name="android.permission.INTERNET" />

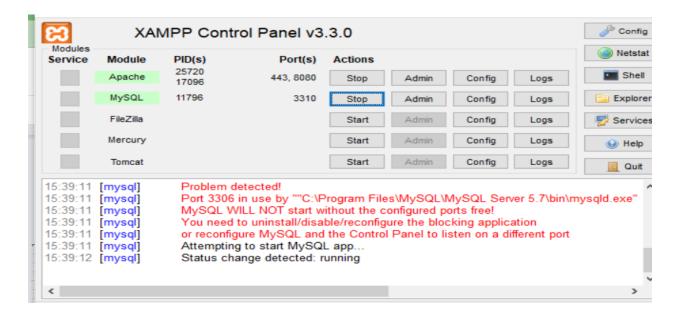
android:networkSecurityConfig="@xml/network_security_config" android:usesCleartextTraffic="true"

build.gradle(:app)

implementation 'com.squareup.retrofit2:retrofit:2.9.0' implementation 'com.squareup.retrofit2:converter-gson:2.5.0'

```
implementation 'androidx.appcompat:appcompat:1.5.1'
implementation 'com.google.android.material:material:1.7.0'
implementation 'androidx.constraintlayout:constraintlayout:2.1.4'
testImplementation 'junit:junit:4.13.2'
androidTestImplementation 'androidx.test.ext:junit:1.1.4'
androidTestImplementation 'androidx.test.espresso:espresso-core:3.5.0'
implementation 'com.android.volley:volley:1.2.1'
implementation 'com.squareup.retrofit2:retrofit:2.9.0'
implementation 'com.squareup.retrofit2:converter-gson:2.5.0'
```

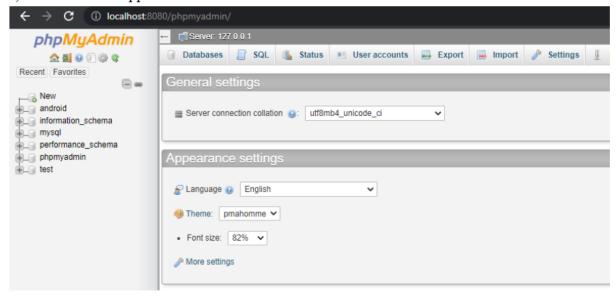
Xampp should be there and turned on



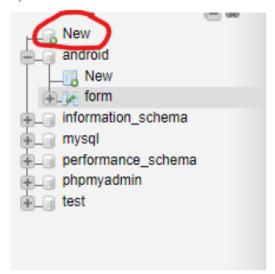
Goto localhost:8080 in your Browser→Click on phpmyadmin



3) Below window appears



4) Click on New



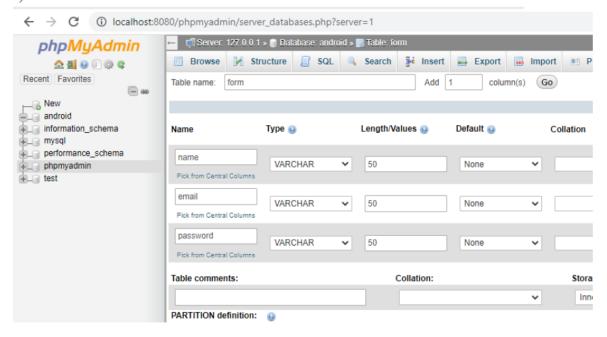
5) Enter database name and click Create



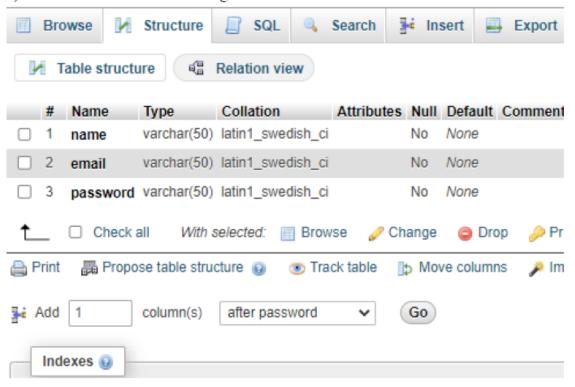
6) Enter Name and enter number of the columns and click Go



7) Enter details as shown below



8) Click on create below image window is shown



Goto xampp folder→htdocs→Create Folder PHP→Signup.php



Name	Date modified	Type	Size
Signup	17-11-2022 19:32	PHP Source File	1 KB

Write code Signup.php in notepad and save it with .php extension Signup.php

```
<?php
$conn = mysqli connect("localhost","root","","android");
$name=trim($ POST['name']);
$email=trim($ POST['email']);
$pass=trim($ POST['password']);
if($conn)
$gry = "select * from form where email='$email'";
$result = mysqli query($conn,$qry);
if(mysqli num rows($result)>0)
$response['message']="exist";
echo json encode($response);
}
else
$qry = "insert into form(name,email,password)values('$name','$email','$pass')";
if(mysqli query($conn,$qry))
$response['message']="success";
else{
$response['message']="failed";
echo json encode($response);
}
else{
$response['message']="failed";
echo json encode($response);
```

```
}
?>
```

FormActivity.java

```
package com.example.prac10;
import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import retrofit2.Call;
import retrofit2. Callback;
import retrofit2. Response;
public class FormActivity extends AppCompatActivity {
  EditText t1,t2,t3;
  Button SignUpBtn;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity form);
    t1=(EditText)findViewById(R.id.t1);
    t2=(EditText)findViewById(R.id.t2);
    t3=(EditText)findViewById(R.id.t3);
    SignUpBtn=(Button)findViewById(R.id.SignUpBtn);
    SignUpBtn.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         processSignUp();
    });
  void processSignUp(){
    String name = t1.getText().toString();
    String email = t2.getText().toString();
    String password = t3.getText().toString();
```

```
Call<ResponseModel> call =
Controller.getInstance().getapi().verifyuser(name,email,password);
     call.enqueue(new Callback<ResponseModel>() {
        @Override
        public void onResponse(Call<ResponseModel> call,
                       Response<a href="ResponseModel">Response<a href="ResponseModel">Response<a href="ResponseModel">Response<a href="ResponseModel">Response<a href="ResponseModel">Response<a href="ResponseModel">Response</a>
          ResponseModel obj=response.body();
          String output=obj.getMessage();
          if(output.equals("exist")) {
             t1.setText("");
             t2.setText("");
             t3.setText("");
             Toast.makeText(getApplicationContext(),"User Already Exist",
Toast.LENGTH LONG).show();
          if(output.equals("success")) {
             Toast.makeText(getApplicationContext(),"User Registered Successfully",
Toast.LENGTH LONG).show();
          }
          if(output.equals("failed")) {
             Toast.makeText(getApplicationContext(), "Something went wrong",
Toast.LENGTH LONG).show();
          }
          if(output.equals("failed")) {
             Toast.makeText(getApplicationContext(),"Connection failure",
Toast.LENGTH LONG).show();
        @Override
        public void onFailure(Call<ResponseModel> call, Throwable t) {
          Toast.makeText(getApplicationContext(),t +" "+call, Toast.LENGTH LONG).show();
     });}}
ResponseModel.java
package com.example.prac10;
public class ResponseModel {
  String message;
```

```
public ResponseModel(String message) {
              this.message = message;
       public ResponseModel() {}
       public String getMessage() {
              return message;
       public void setMessage(String message) {
              this.message = message;
       }
Controller.java
package com.example.prac10;
import javax.net.ssl.HostnameVerifier;
import javax.net.ssl.SSLContext;
import javax.net.ssl.SSLSession;
import javax.net.ssl.SSLSocketFactory;
import javax.net.ssl.TrustManager;
import javax.net.ssl.X509TrustManager;
import javax.security.cert.CertificateException;
import okhttp3.OkHttpClient;
import retrofit2. Retrofit;
import retrofit2.converter.gson.GsonConverterFactory;
public class Controller {
       private static final String url="https://10.0.2.2/PHP/Signup.php/";
       private static Controller clientobject;
       private static Retrofit retrofit;
       Controller() {
              retrofit=new Retrofit.Builder()
. base Url (url). add Converter Factory (Gson Converter Factory. create ()). client (get Unsafe Ok Http Clien Un
t()).build();
       public static synchronized Controller getInstance() {
              if(clientobject==null)
                     clientobject=new Controller();
```

```
return clientobject;
  }
  Apiset getapi() {
    return retrofit.create(Apiset.class);
  }
  private static OkHttpClient getUnsafeOkHttpClient() {
    try {
       // Create a trust manager that does not validate certificate chains
       final TrustManager[] trustAllCerts = new TrustManager[] {
            new X509TrustManager() {
              @Override
              public void checkClientTrusted(java.security.cert.X509Certificate[] chain, String
authType) {
              @Override
              public void checkServerTrusted(java.security.cert.X509Certificate[] chain, String
authType) {
              @Override
              public java.security.cert.X509Certificate[] getAcceptedIssuers() {
                 return new java.security.cert.X509Certificate[]{};
       };
       // Install the all-trusting trust manager
       final SSLContext sslContext = SSLContext.getInstance("SSL");
       sslContext.init(null, trustAllCerts, new java.security.SecureRandom());
       // Create an ssl socket factory with our all-trusting manager
       final SSLSocketFactory sslSocketFactory = sslContext.getSocketFactory();
       OkHttpClient.Builder builder = new OkHttpClient.Builder();
       builder.sslSocketFactory(sslSocketFactory);
       builder.hostnameVerifier(new HostnameVerifier() {
         @Override
         public boolean verify(String hostname, SSLSession session) {
            return true;
```

```
});
       OkHttpClient okHttpClient = builder.build();
       return okHttpClient;
    } catch (Exception e) {
       throw new RuntimeException(e);
Apiset.java
package com.example.prac10;
import retrofit2.Call;
import retrofit2.http.Field;
import retrofit2.http.FormUrlEncoded;
import retrofit2.http.POST;
public interface Apiset {
  @FormUrlEncoded
  @POST("/PHP/Signup.php")
  Call<ResponseModel> verifyuser(
       @Field("name") String name,
       @Field("email") String email,
       @Field("password") String password
  );
```

}