

Program-5. Implement an application that will create a database with a table of user credentials and create a Login portal system.

1. Create one more activity (Login)
New->Activity->Empty Activity
2. Create simple java File(DbHelper)
New->java class

activity_login.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"
tools:context=".Login">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Welcome"
        android:textSize="34sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.239" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Login.java:-

```
package com.durgesh.program_5;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
```

```
public class Login extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
    }
}
```

activity_main.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"
tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:text="Login Page"
android:textSize="24sp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.155" />
```

<EditText

```
android:id="@+id/name"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter Name"
android:inputType="textPersonName"
android:minHeight="48dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.507"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
```

<EditText

```
android:id="@+id/number"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:hint="Enter Number"
android:inputType="number|textPersonName"
android:minHeight="48dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.497"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.376" />
```

<Button

```
android:id="@+id/login"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Login"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.321"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.512" />
```

<Button

```
android:id="@+id/register"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Register"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
```

```

app:layout_constraintHorizontal_bias="0.681"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.512" />

```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```

package com.durgesh.program_5;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    private Button login;
    private Button register;
    private EditText name;
    private EditText phone;
    private DBHelper dbHelper;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        login=findViewById(R.id.login);
        register=findViewById(R.id.register);
        name=findViewById(R.id.name);
        phone=findViewById(R.id.number);

        dbHelper=new DBHelper(this);

        register.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String nametxt=name.getText().toString();
                String phonetxt=phone.getText().toString();

                Boolean ckinset=dbHelper.insertdata(nametxt,phonetxt);
                if(ckinset==true){
                    Toast.makeText(getApplicationContext(), "insert successfully",
Toast.LENGTH_SHORT).show();
                }else{
                    Toast.makeText(getApplicationContext(), "failed",
Toast.LENGTH_SHORT).show();
                }
                dbHelper.close();
            }
        });
    }
}

```

```

login.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String nametxt=name.getText().toString();
        String phonetxt=phone.getText().toString();
        Boolean ck=dbHelper.cknameph(nametxt,phonetxt);
        if(ck==true){
            Intent intent=new Intent(MainActivity.this,Login.class);
            startActivity(intent);
        }
        else{
            Toast.makeText(getApplicationContext(), "failed to read",
Toast.LENGTH_SHORT).show();
        }
        dbHelper.close();
    }
});
}
}

```

Create new java file:-

goto to File->new->java class

DbHelper.java:-

```
package com.durgesh.program_5;
```

```

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

```

```
public class DbHelper extends SQLiteOpenHelper {
```

```

    public DbHelper(Context context) {
        super(context, "userdata.db", null, 1);
    }

```

@Override

```

public void onCreate(SQLiteDatabase db) {
    db.execSQL("create table userdata(name TEXT,phone TEXT)");
}

```

@Override

```

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
    db.execSQL("drop table if exists userdata");
}

```

```

public boolean insertdata(String name,String phone){
    SQLiteDatabase db=this.getWritableDatabase();
    ContentValues cv=new ContentValues();
    cv.put("name",name);
    cv.put("phone",phone);
    int result= (int) db.insert("userdata",null,cv);
    if(result==-1){
        return false;
    }
    else{
        return true;
    }
}

```

```

public boolean cknameph(String name,String phone){
    SQLiteDatabase db=this.getReadableDatabase();
    Cursor c=db.rawQuery("select * from userdata where name=? and phone=?",new
String[] {name,phone});
    if(c.getCount()>0){
        return true;
    }
    else{
        return false;
    }
}
}
}

```

Output:-

