

Program no:9**Date:24/10/24****Aim:** Implement Intent to Navigate between multiple activities**Activity1.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">

    <LinearLayout

        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        tools:layout_editor_absoluteX="16dp"
        tools:layout_editor_absoluteY="0dp">

        <LinearLayout

            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">

            <TextView

                android:id="@+id/textView"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="    REGISTRATION FORM"
```

```
        android:textAlignment="center"
        android:textColor="#3F51B5"
        android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Name" />
```

```
<EditText
    android:id="@+id/ed_name1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:ems="10"
    android:hint="enter name"
    android:inputType="text" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
android:orientation="horizontal">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Email" />
```

```
<EditText
    android:id="@+id/emailid23"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:ems="10"
    android:inputType="text" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="34dp"
    android:orientation="horizontal">
```

```
<TextView
    android:id="@+id/rg_gender1"
    android:layout_width="227dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Gender" />
```

```
<RadioGroup
    android:id="@+id/region"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:orientation="horizontal">
```

```
<RadioButton
    android:id="@+id/Female1"
    android:layout_width="165dp"
    android:layout_height="wrap_content"
    android:text="Female" />
```

```
<RadioButton
    android:id="@+id/male"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Male" />
```

```
</RadioGroup>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

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

```
    android:layout_weight="1"
    android:text="Password" />
```

```
<EditText
    android:id="@+id/ed_pass"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:ems="10"
    android:inputType="textPassword" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<CheckBox
    android:id="@+id/c_agree"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="I Agree" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<Button
    android:id="@+id/bn1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:onClick="onclick"
    android:text="Submit" />
</LinearLayout>
```

```
</LinearLayout>
```

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

Activity1.java

```
package com.example.registrationform;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;

public class MainActivity extends AppCompatActivity {
    EditText name;
    EditText email;
    EditText pass;
    RadioGroup gender;
    RadioButton r_female;
    CheckBox agree;
    Button bn;
    Boolean isALLFieldsChecked;
```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    name=findViewById(R.id.ed_name1);
    email=findViewById(R.id.emailid23);
    pass=findViewById(R.id.ed_pass);
    gender=findViewById(R.id.region);
    agree=findViewById(R.id.c_agree);
    bn=findViewById(R.id.bn1);
}

public void onclick(View view) {
    isALLFieldsChecked = checkALLFields();
    if (isALLFieldsChecked) {
        Intent intent=new Intent(MainActivity.this,MainActivity2.class);
        intent.putExtra("name",name.getText().toString());
        intent.putExtra("email",email.getText().toString());

        intent.putExtra("gender",gender.getCheckedRadioButtonId()==R.id.region?"Male":"Female"
    );
        startActivity(intent);
    }
}

private boolean checkALLFields() {
    if (name.length() == 0) {
        name.setError("name is required");
        return false;
    }
    if (email.length() == 0) {
        email.setError("email is required");
        return false;
    } else {
        String email1=email.getText().toString();
        String checkEmail = "[a-zA-Z0-9._-]+@[a-z]+.[a-z]";
        if (!email1.matches(checkEmail)) {
            email.setError("invalid error");
            return false;
        }
    }
    if (pass.length() == 8) {
        pass.setError("name is required");
        return false;
    }
    if (gender.getCheckedRadioButtonId() == -1) {

```

```

        r_female.setError("select gender");
        r_female.requestFocus();
        return false;
    }
    if (!agree.isChecked()) {
        agree.setError("please agree");
        agree.requestFocus();
        return false;
    }
    return true;
}
}

```

Activity2.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    tools:context=".MainActivity2">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="REGISTRATION FORM"
        android:textAlignment="center"
        android:textColor="#3F51B5"
        android:textSize="24sp" />

    <TextView
        android:id="@+id/displayName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Display Name"
        android:textSize="20sp" />

    <TextView
        android:id="@+id/displayEmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Display Email"
        android:textSize="20sp" />

    <TextView

```



```
        android:id="@+id/displayGender"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Display Gender"
        android:textSize="20sp" />
</LinearLayout>
```

Activity2.java

```
package com.example.registrationform;

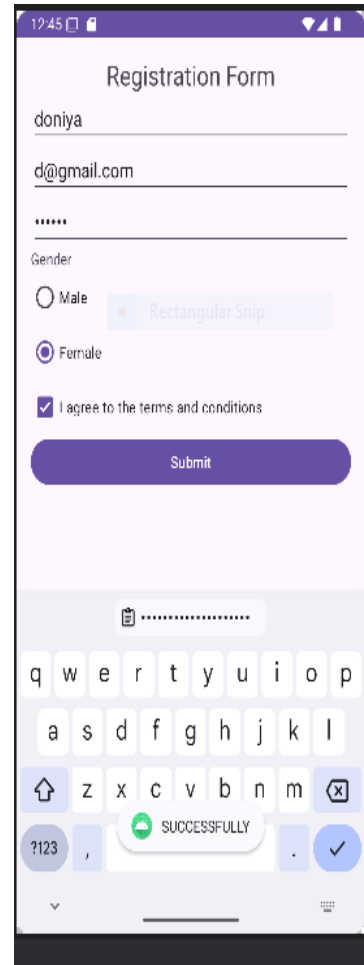
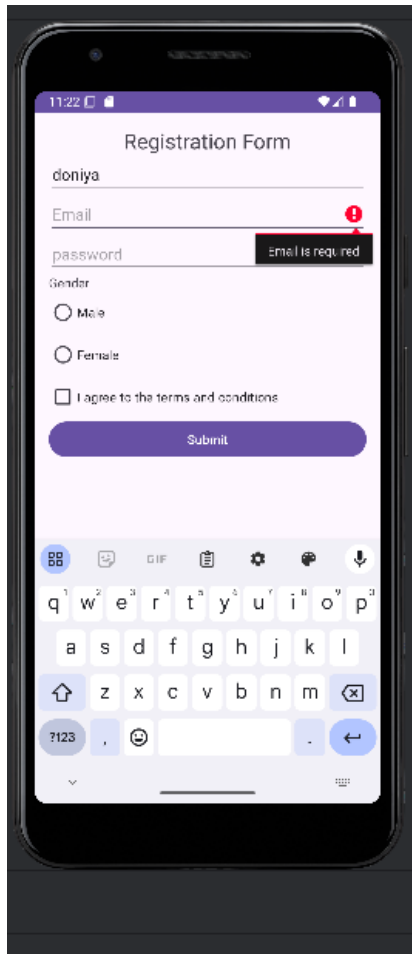
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity2 extends AppCompatActivity {
    TextView displayName, displayEmail, displayGender;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        Toast.makeText(this, "Login Successfully completed", Toast.LENGTH_SHORT).show();
        displayName=findViewById(R.id.displayName);
        displayEmail=findViewById(R.id.displayEmail);
        displayGender=findViewById(R.id.displayGender);
        String name=getIntent().getStringExtra("name");
        String email=getIntent().getStringExtra("email");
        String gender=getIntent().getStringExtra("gender");
        displayName.setText("Name:"+name);
        displayEmail.setText("Email:"+email);
        displayGender.setText("Gender:"+gender);
    }
}
```

OUTPUT



Program no:10**Date:24/10/2024****Aim:**Develop an application that uses array adapter list view**Activity.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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">

    <ListView
        android:id="@+id/list"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
</LinearLayout>
```

List xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/month"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Month"
        android:textSize="24sp" />
</LinearLayout>
```

Activity.java

```
package com.example.listview;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
```

```

public class MainActivity extends AppCompatActivity {
    ListView lv;
    String[] s={ "Monday","Tuesday","Wednesday" };

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        lv=findViewById(R.id.list);
        ArrayAdapter<String>adapter=new
ArrayAdapter<String>(this,R.layout.list,R.id.month,s);
        lv.setAdapter(adapter);
        lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {

                Toast.makeText(getApplicationContext(),lv.getItemAtPosition(i).toString(),Toast.LENGTH_
LONG).show();
            }
        });
    }
}

```

OUTPUT





output

Program no:11**Date:24/10/2024****Aim:**Develop an application to implement option menu**Activity_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">

    <item
        android:id="@+id/item1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:title="Item 1" />
    <item
        android:id="@+id/item2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:title="Item 2" />
    <item
        android:id="@+id/item3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:title="Item 3" />
</menu>
```

Menu1.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">

    <item
        android:id="@+id/item1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:title="Item 1" />
    <item
        android:id="@+id/item2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:title="Item 2" />
    <item
        android:id="@+id/item3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:title="Item 3" />
</menu>
```

Themes.xml

```
<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Base.Theme.Optionmenu"
parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Customize your light theme here. -->
        <!-- <item name="colorPrimary">@color/my_light_primary</item> -->
    </style>

    <style name="Theme.Optionmenu" parent="Base.Theme.Optionmenu" />
</resources>
```

Mainactivity.java

```
package com.example.optionmenu;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu){
        MenuInflater inflater=getMenuInflater();
        inflater.inflate(R.menu.menu1,menu);
        return true;
    }
    public boolean onOptionsItemSelected(MenuItem item)
    {
        if (item.getItemId()==R.id.item1)
        {
            Toast.makeText(this, "", Toast.LENGTH_SHORT).show();
        } else if (item.getItemId()==R.id.item2) {
            Toast.makeText(this, "item2", Toast.LENGTH_SHORT).show();
        }
        else{
            Toast.makeText(this, "item3", Toast.LENGTH_SHORT).show();
        }
    }
}
```

```
}  
  return true;  
}  
  
}
```

OUTPUT



Hello World!

Hello World!



Program no:12

Date:7/11/2024

Aim: Create A database using SQLite and perform,Insert,Delete,Update on SQLite Database

Activity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <TextView
            android:id="@+id/head"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="EMPLOYEE REGISTRATION"
            android:textAlignment="center"
            android:textColor="#9C27B0"
            android:textSize="20sp" />

        <EditText
            android:id="@+id/ET_id"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:ems="10"
            android:hint="ID"
            android:inputType="textPersonName" />

        <EditText
            android:id="@+id/ET_name"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:ems="10"
            android:hint="Name"
            android:inputType="textPersonName" />

    </LinearLayout>

</LinearLayout>
```

```
<EditText
    android:id="@+id/ET_place"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Place"
    android:inputType="textPersonName" />
```

```
<Button
    android:id="@+id/B_SUBMIT"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:backgroundTint="#9C27B0"
    android:text="INSERT"
    android:textColor="@color/white"
    android:textColorHighlight="#009688"
    android:textColorHint="#009688"
    android:textColorLink="#009688" />
```

```
<Button
    android:id="@+id/B_sel"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:backgroundTint="#9C27B0"
    android:text="SELECT" />
```

```
<Button
    android:id="@+id/B_update"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:backgroundTint="#9C27B0"
    android:text="UPDATE" />
```

```
<Button
    android:id="@+id/B_delete"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:backgroundTint="#9C27B0"
    android:text="DELETE" />
```

```
<Button
    android:id="@+id/B_clear"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:backgroundTint="#9C27B0"
    android:text="CLEAR" />
```

```
<TextView
    android:id="@+id/T_id"
    android:layout_width="match_parent"
    android:layout_height="46dp" />
```

```
<TextView
    android:id="@+id/T_name"
    android:layout_width="match_parent"
    android:layout_height="55dp" />
```

```
<TextView
    android:id="@+id/T_place"
    android:layout_width="match_parent"
    android:layout_height="47dp" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

Mainactivity.java

```
package com.example.database;
```

```
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
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 java.util.ArrayList;
```

```
public class MainActivity extends AppCompatActivity {
    EditText ename,eplace,eid;
    Button bsubmit,bsel,bup,bdel,bclr;
    TextView tid,tname,tplace;
    SQLiteDatabase db;
    AlertDialog.Builder builder;

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

```

ename =(EditText) findViewById(R.id.ET_name);
eplace =(EditText) findViewById(R.id.ET_place);
eid =(EditText) findViewById(R.id.ET_id);
bsubmit =(Button) findViewById(R.id.B_SUBMIT);
bsel =(Button) findViewById(R.id.B_sel);
tid =(TextView) findViewById(R.id.T_id);
tname =(TextView) findViewById(R.id.T_name);
tplace =(TextView) findViewById(R.id.T_place);
bup =(Button) findViewById(R.id.B_update);
bdel =(Button) findViewById(R.id.B_delete);
bclr =(Button) findViewById(R.id.B_clear);
builder = new AlertDialog.Builder(this);

try{
    db = openOrCreateDatabase("empdb", MODE_PRIVATE, null);
    db.execSQL("Create table employee(id integer primary key,name Text,place Text)");
    Toast.makeText(getApplicationContext(), "Created Successfully",
Toast.LENGTH_SHORT).show();
}
catch(Exception e)
{
}

bsubmit.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        try {
            db.execSQL("Insert into employee values
("+eid.getText().toString()+",""+ename.getText().toString()+",""+eplace.getText().toString()+")");
            Toast.makeText(getApplicationContext(), "Record Inserted Successfully",
Toast.LENGTH_SHORT).show();
        }
        catch (Exception e) {
            Toast.makeText(getApplicationContext(), "Error in Data",
Toast.LENGTH_SHORT).show();
        }
    }
});
bclr.callOnClick();

bsel.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        Cursor c = db.rawQuery("select * from employee ", null);
        if (c.getCount() == 0) {

```

```

        Toast.makeText(getApplicationContext(), "No such record",
Toast.LENGTH_SHORT).show();
    } else {
        /* c.moveToFirst();
        tid.setText(c.getString(0));
        tname.setText(c.getString(1));
        tplace.setText(c.getString(2));
        */

        StringBuffer b = new StringBuffer();
        while (c.moveToNext()) {
            b.append("Id:" + c.getString(0) + "\n");
            b.append("Name:" + c.getString(1) + "\n");
            b.append("Place:" + c.getString(2) + "\n");
            // on below line we are creating a new array list.
        }
        Toast.makeText(getApplicationContext(), b.toString(), Toast.LENGTH_LONG).show();
        builder.setMessage(b.toString());
        AlertDialog alert = builder.create();
        alert.setTitle("Employee Data");
        alert.show();
    }
}

});
bup.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        db.execSQL("update employee set
name='"+ename.getText().toString()+"',place='"+eplace.getText().toString()+"' where
id='"+eid.getText().toString()+"");
        Toast.makeText(getApplicationContext(), "updated....", Toast.LENGTH_SHORT).show();
    }
});
bde1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        db.execSQL("delete from employee where id='"+eid.getText().toString()");
        Toast.makeText(getApplicationContext(), "Item Deleted",
Toast.LENGTH_SHORT).show();

    }
});

bclr.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

```

```
        eid.setText("");
        ename.setText("");
        eplace.setText("");

    }
});
bclr.callOnClick();
}
}
```

OUTPUT

