

**MOBILE APPLICATION DEVELOPMENT LAB**

**CYCLE 2**

1. Create two activities. From the first activity on a button click move to the next activity. (Using intent)

#### activity\_main.xml

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="MOVE TO NEXT ACTIVITY"
        android:id="@+id/bt"
        android:onClick="click"
        android:gravity="center"/>
</LinearLayout>
```

#### MainActivity.java

```
package com.example.sjcet.al_activity;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
    Button bt;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        bt = findViewById(R.id.bt);
    }
    public void click(View view) {
        OpenNewActivity();
    }
    public void OpenNewActivity()
    {
        Intent intent = new Intent(this, Main3Activity.class);
        startActivity(intent);
    }
}
```

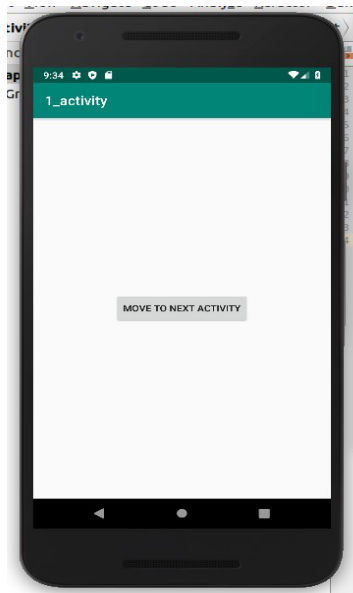
#### activity\_main3.xml

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

    android:orientation="vertical"
    android:gravity="center"
    android:background="@android:color/holo_blue_light"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="WELCOME TO THE SECOND ACTIVITY"
        android:id="@+id/tv" />
</LinearLayout>
```

### Main3Activity.java

```
package com.example.sjcet.a1_activity;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class Main3Activity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main3);
    }
}
```



2. Create an activity and move to the Facebook login page on a button click.(making use of intent)

### activity\_main.xml

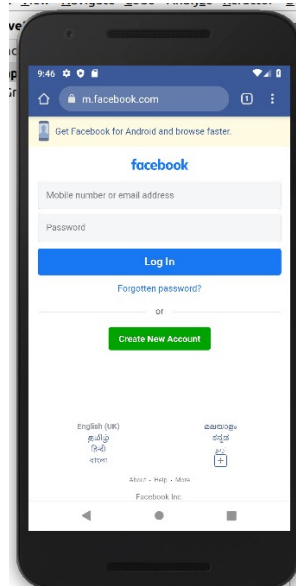
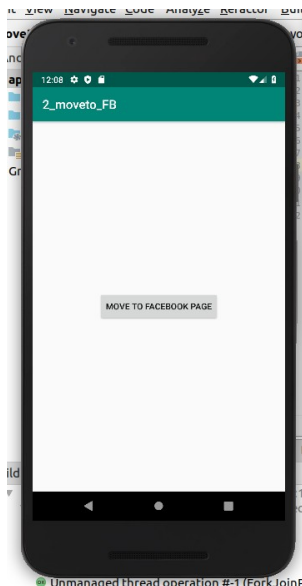
```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="MOVE TO FACEBOOK PAGE"
        android:id="@+id/bt"
        android:onClick="click"
        android:gravity="center"/>
</LinearLayout>
```

## MainActivity.java

```
package com.example.sjcet.a2_moveto_fb;

import android.content.Intent;
import android.net.Uri;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btn_Explicit = (Button)findViewById(R.id.bt);
        btn_Explicit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new
Intent(Intent.ACTION_VIEW,Uri.parse("https://www.facebook.com/"));
                startActivity(intent);
            }
        });
    }
}
```



3. Read a message in the first activity and pass it to the second activity on a button click.

## activity\_main.xml

```
<LinearLayout
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:layout_gravity="center"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/msg"/>
```

```

        android:hint="Enter Message"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/snd"
        android:text="Send"
        android:layout_gravity="center"
        android:onClick="click"/>
</LinearLayout>

```

### MainActivity.java

```

package com.example.sjcet.a3_pass_msg;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    TextView msg;
    Button snd;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        msg=findViewById(R.id.msg);
        snd=findViewById(R.id.snd);
    }
    public void click(View view) {
        String str = msg.getText().toString();
        Intent intent=new Intent(getApplicationContext(),Main2Activity.class);
        intent.putExtra("Message_Key",str);
        startActivity(intent);
    }
}

```

### activity\_main2.xml

```

<LinearLayout
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android" >
    <TextView
        android:id="@+id/rcv"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center"/>
</LinearLayout>

```

### Main2Activity.java

```

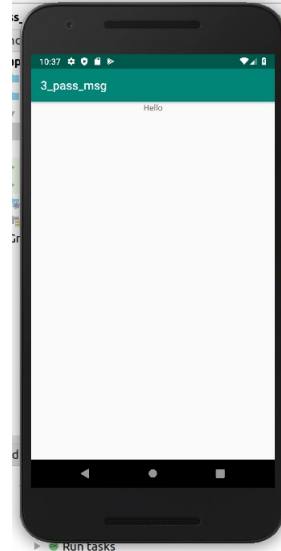
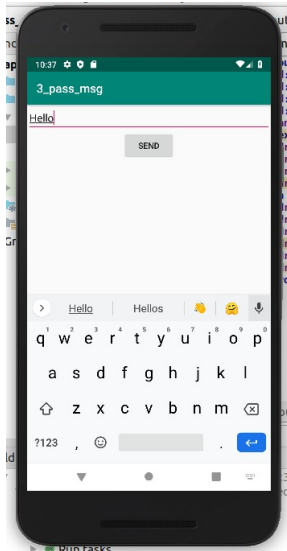
package com.example.sjcet.a3_pass_msg;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class Main2Activity extends AppCompatActivity {
    TextView rcv;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        rcv=findViewById(R.id.rcv);
    }
}

```

```

        Intent intent=getIntent();
        String str = intent.getStringExtra("Message_Key");
        rcv.setText(str);
    }
}

```



4. Create a registration page with full validation and pass the information to the second activity (using shared preference)

Mandatory fields : fname,lname,gender,email,phone number,password,dob(date picker)

#### activity\_main.xml

```

<LinearLayout
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:layout_gravity="left"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="32dp"
        android:gravity="center"
        android:text="Registration Form"
        android:textColor="@android:color/black"
        android:textSize="24sp" />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/fname"
        android:padding="10dp"
        android:hint="First Name"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/lname"
        android:padding="10dp"

```

```

        android:hint="Last Name"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/gen"
    android:padding="10dp"
    android:hint="Gender"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/email"
    android:padding="10dp"
    android:hint="Email Id"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/phno"
    android:padding="10dp"
    android:hint="Contact"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/pswd"
    android:padding="10dp"
    android:hint="Password"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/dob"
    android:padding="10dp"
    android:hint="Date Of Birth"/>
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/btn"
    android:text="Submit"
    android:onClick="Save"/>
</LinearLayout>

```

### MainActivity.java

```

package com.example.sjcet.a4_registration;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.util.Patterns;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    EditText fname,lname,gen,phno,email,pswd,dob;
    Button btn;
    SharedPreferences sharedPreferences;
    public static final String MyPREFERENCES = "MyPrefs" ;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        fname = findViewById(R.id.fname);
        lname = findViewById(R.id.lname);

```

```

        gen = findViewById(R.id.gen);
        email = findViewById(R.id.email);
        phno = findViewById(R.id.phno);
        pswd = findViewById(R.id.pswd);
        dob = findViewById(R.id.dob);
        btn = findViewById(R.id.btn);
        sharedPreferences = getSharedPreferences(MyPREFERENCES,
Context.MODE_PRIVATE);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                checkDataEntered();
                SharedPreferences MyPrefs =
getSharedPreferences("activity_main2.xml",0);
                SharedPreferences.Editor editor=MyPrefs.edit();
                editor.putString("fname",fname.getText().toString());
                editor.putString("lname",lname.getText().toString());
                editor.putString("phno", phno.getText().toString());
                editor.putString("gen", gen.getText().toString());
                editor.putString("mail", email.getText().toString());
                editor.putString("dob", dob.getText().toString());
                editor.putString("pswd",pswd.getText().toString());
                editor.commit();
                Intent intent = new Intent(getApplicationContext(),
Main2Activity.class);
                intent.putExtra("fname",fname.getText().toString());
                intent.putExtra("lname",lname.getText().toString());
                intent.putExtra("phno", phno.getText().toString());
                intent.putExtra("gen", gen.getText().toString());
                intent.putExtra("mail", email.getText().toString());
                intent.putExtra("dob", dob.getText().toString());
                intent.putExtra("pswd",pswd.getText().toString());
                startActivity(intent);

                Toast.makeText(MainActivity.this,"Thanks",Toast.LENGTH_LONG).show();
            }
        });
    }
    boolean isEmail(EditText text) {
        CharSequence email = text.getText().toString();
        return (!TextUtils.isEmpty(email) &&
Patterns.EMAIL_ADDRESS.matcher(email).matches());
    }
    boolean isEmpty(EditText text) {
        CharSequence str = text.getText().toString();
        return TextUtils.isEmpty(str);
    }
    void checkDataEntered(){
        if (isEmpty(fname)) {
            Toast t = Toast.makeText(this, "You must enter first name to
register!", Toast.LENGTH_SHORT);
            t.show();
        }
        if (isEmpty(lname)) {
            lname.setError("Last name is required!");
        }
        if (isEmpty(phno)) {
            phno.setError("mobile number is required!");
        }
        if (isEmpty(gen)) {
            gen.setError("Gender is required!");
        }
        if (isEmpty(pswd)) {
            pswd.setError("Password is required!");
        }
        if (isEmpty(dob)) {
            dob.setError("DOB is required!");
        }
        if (isEmail(email) == false) {

```



```

        email.setError("Enter valid email!");
    }
}
}

```

### activity\_main2.xml

```

<LinearLayout android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:gravity="center"
xmlns:android="http://schemas.android.com/apk/res/android">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="WELCOME "
    android:textColor="@color/colorPrimaryDark"
    android:textSize="32dp"/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:id="@+id/tv"
    android:textColor="@color/colorPrimaryDark"
/>
<TextView
    android:id="@+id/tv1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:textColor="@color/colorPrimaryDark" />
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/tv2"
    android:gravity="center"
    android:textColor="@color/colorPrimaryDark"
/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/tv3"
    android:gravity="center"
    android:textColor="@color/colorPrimaryDark"
/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/tv4"
    android:gravity="center"
    android:textColor="@color/colorPrimaryDark"
/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/tv5"
    android:gravity="center"
    android:textColor="@color/colorPrimaryDark"
/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/tv6"
    android:gravity="center"
    android:textColor="@color/colorPrimaryDark"
/>
</LinearLayout>

```

## Main2Activity.java

```
package com.example.sjcet.a4_registration;
import android.content.Intent;
import android.content.SharedPreferences;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class Main2Activity extends AppCompatActivity {
    TextView tv,tv1,tv2,tv3,tv4,tv5,tv6;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        tv = findViewById(R.id.tv);
        tv1 =findViewById(R.id.tv1);
        tv2 =findViewById(R.id.tv2);
        tv3 =findViewById(R.id.tv3);
        tv4 =findViewById(R.id.tv4);
        tv5 =findViewById(R.id.tv5);
        tv6 =findViewById(R.id.tv6);
        Intent intent = getIntent();
        SharedPreferences mypref=getSharedPreferences("activity_main2.xml",0);
        String str = mypref.getString("fname",null);
        String str1 = mypref.getString("lname",null);
        String str2 = mypref.getString("gen",null);
        String str3 = mypref.getString("phno",null);
        String str4 = mypref.getString("pwd",null);
        String str5 = mypref.getString("email",null);
        String str6 = mypref.getString("dob",null);
        tv.setText(str);
        tv1.setText(str1);
        tv2.setText(str2);
        tv3.setText(str3);
        tv4.setText(str4);
        tv5.setText(str5);
        tv6.setText(str6);
    }
}
```

