

	NAME	FARAH HANIS BINTI AZAMAN	
	REGISTRATION NUMBER	25DDT21F1023	MARKS
	CLASS	DDT 5 SAD 1	
	SESSION	SESI I 2023/2024	
	COURSE CODE	DFP50293 – MOBILE APPLICATIONS	
	EOC / CLO	2 (CLO2)	
	LECTURER	PN. MUNIRAH BINTI AB RAHMAN	

CLO 2 : Display the ability to visualize the data and graphics using Android Technologies. (P4, PLO6)

TOPIC : 2.1 Construct Application User Interface
2.2 Navigating between Activities

DURATION : 3 hours

INSTRUCTION : COMPLETE THE FOLLOWING TASK INDIVIDUALLY.

1. Use Android Studio to create an Android application and name it as **LabTask1_<students' ID Number>**
Package : com.example.labactivity1
Template : Empty Views Activity
2. Create First Activity that have the following layout and User Interface (UI), **Figure 1**.
You may arrange the layout based on your own creativity but, it must have the following contents
 - i. Text
 - a. Insert Name – Plain Text
 - b. ID Number - Number
 - ii. Send Data button
 - iii. Image



Figure 1

3. After user fill in text (name & ID number) and clicking the Send Data button, the Name & ID Number will appear in next Activity, as in Figure 2

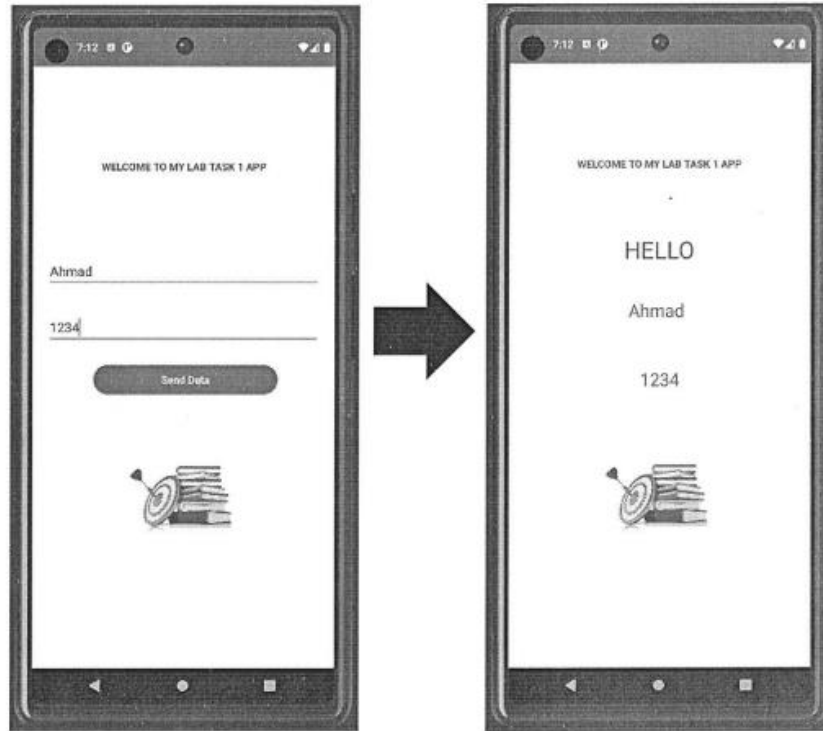



Figure 2

* You may refer the **RUBRIC LABORATORY TASK 1** given, as it is the guidelines in assessing your Laboratory Task 1.


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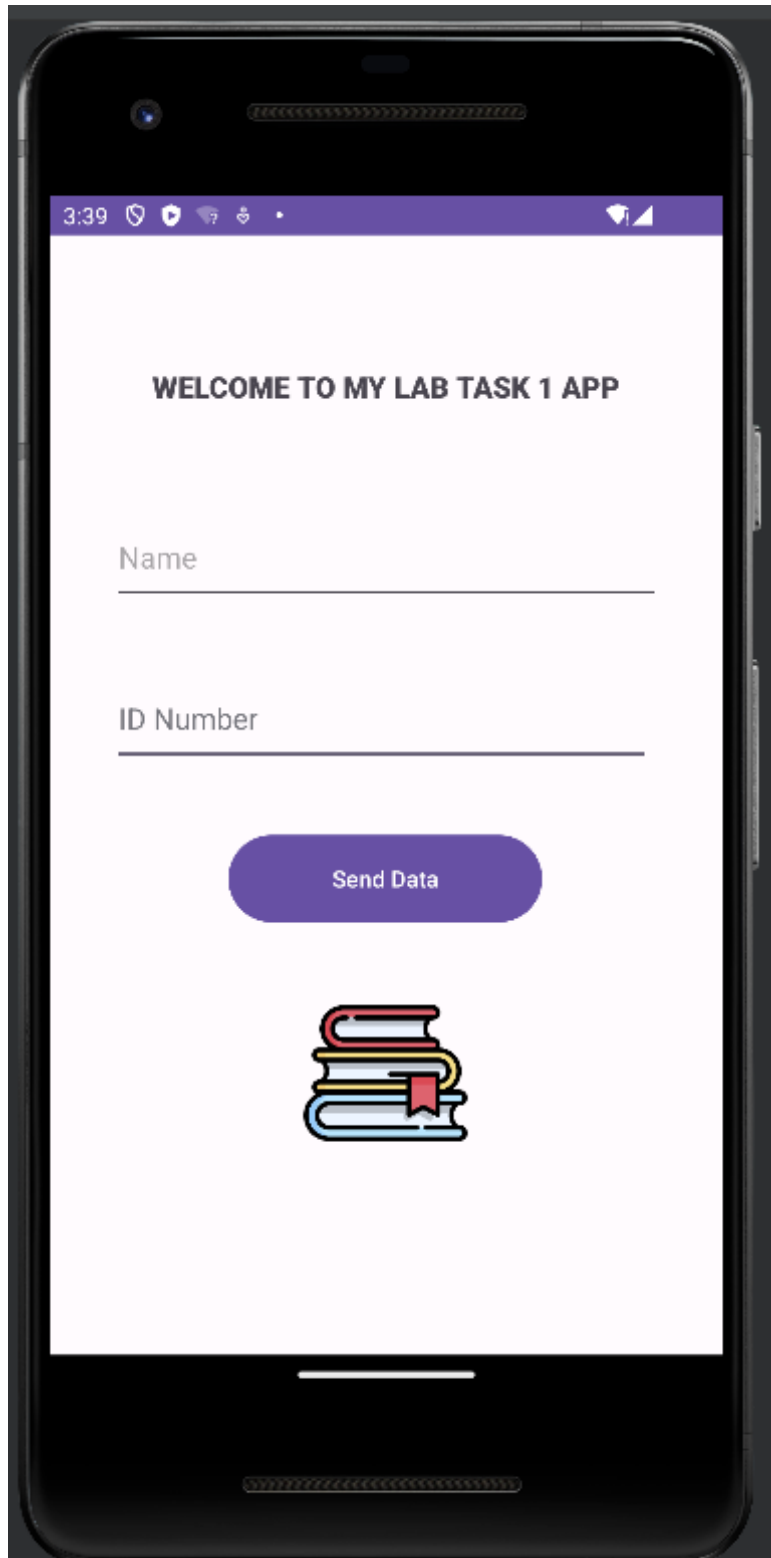
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RUBRIC LABORATORY TASK 1							
CRITERIA	EXCELLENT (4)	VERY GOOD (3)	GOOD (2)	POOR (1)	WEIGHTAGE (%)	STANDARD	MARKS
Question 1 (Creating File)	Student are able to use Android Studio to create an Android application and follow all the requirement for file name, package and template.	Student are able to use Android Studio to create an Android application and follow some the requirement for file name, package and template.	Student are able to use Android Studio to create an Android application but missing parts of the requirement for file name, package and template.	Student not able to use Android Studio to create an Android application and majority of the requirement for file name, package and template doesn't fulfill.	5	(/4)*5	
Question 2 (Construct UI)	Student are able to create activities that have the following layout and User Interface (UI) and fulfill all the contents requirement for texts, button and image.	Student are able to create activities that have the following layout and User Interface (UI); insert some of the content's requirement for texts, button and image.	Student are able to create activities that have the following layout and User Interface (UI); insert parts of the content's requirement for texts, button and image.	Student not able to create activities that have layout and User Interface (UI); not able to insert content's requirement for texts, button and image.	15	(/4)*15	
Question 3 (Navigation)	Success inserting button elements, linking to next page and properly use coding style and guidelines	Almost Success inserting button linking to next page and almost properly use coding style and guidelines	Able inserting button, some issues with linking button, and not properly use coding and guidelines	Able inserting button but cannot link to next page and not properly use coding and guidelines	15	(/4)*15	
Runtime and Logic Errors	The application contains no error	The application contains no major error.	The application has minor error.	The application cannot execute.	15	(/4)*15	
TOTAL							

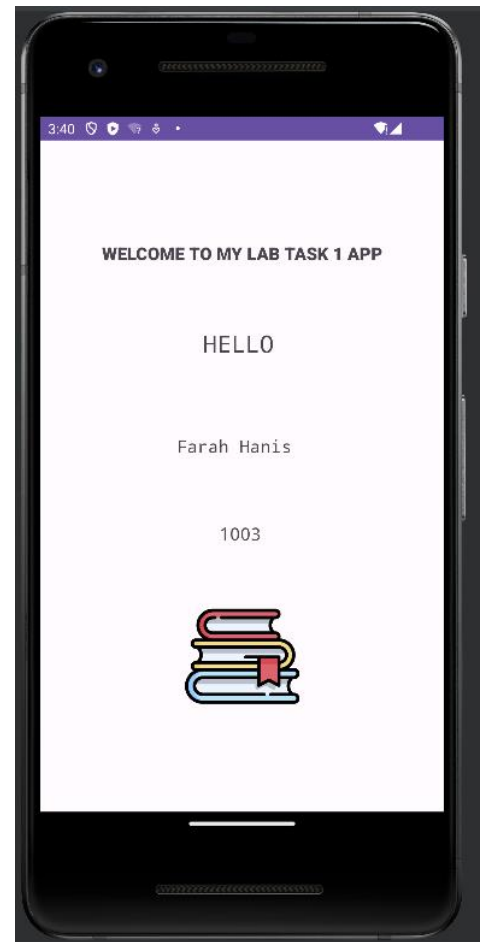
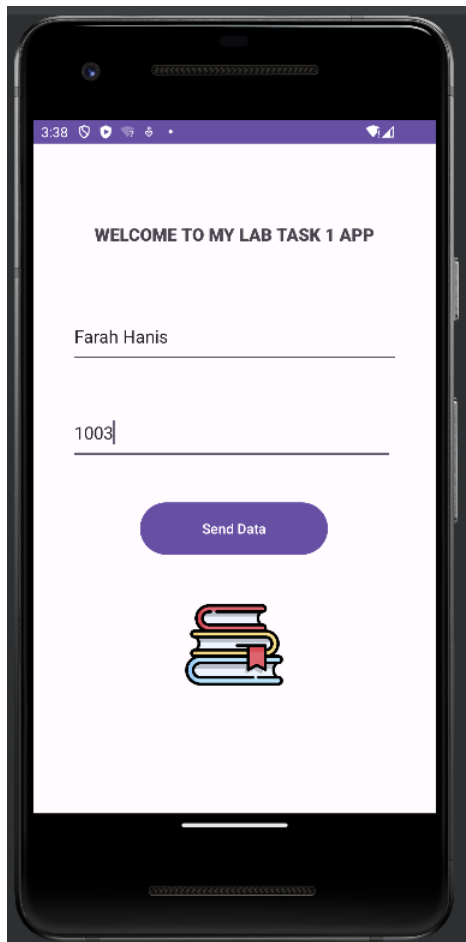

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User Interface (UI)

- Page One



- Page Second



MainActivity.java

```
package com.example.labtask1_25ddt21f1023;

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;

public class MainActivity extends AppCompatActivity {

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

        EditText editName = (EditText) findViewById(R.id.editName);
        EditText editIDNumber = (EditText) findViewById(R.id.editIDNumber);

        Button btnSendData = (Button) findViewById(R.id.btnSendData);
        btnSendData.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String strName = editName.getText().toString();
                String strIDNumber = editIDNumber.getText().toString();
                Intent intent = new
Intent(getApplicationContext(), SecondActivity.class);
                intent.putExtra("nameKey", strName);
                intent.putExtra("idNumKey", strIDNumber);
                startActivity(intent);

            }
        });
    }
}
```

SecodActivity.java

```
package com.example.labtask1_25ddt21f1023;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);

        TextView txtName = (TextView) findViewById(R.id.txtName);
        TextView txtIDNum = (TextView) findViewById(R.id.txtIDNumber);

        Intent intent = getIntent();
        String sName = intent.getStringExtra("nameKey");
        String sIDNum = intent.getStringExtra("idNumKey");
        txtName.setText(sName);
        txtIDNum.setText(sIDNum);
    }
}
```

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:id="@+id/edit"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-black"
        android:text="WELCOME TO MY LAB TASK 1 APP"
        android:textSize="18sp"
        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="0.122" />

    <EditText
        android:id="@+id/editName"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginStart="38dp"
        android:layout_marginTop="168dp"
        android:layout_marginEnd="38dp"
        android:layout_marginBottom="40dp"
        android:ems="10"
        android:hint="Name"
        android:inputType="text"
        app:layout_constraintBottom_toTopOf="@+id/editIDNumber"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/editIDNumber"
        android:layout_width="329dp"
        android:layout_height="0dp"
        android:layout_marginStart="38dp"
        android:layout_marginEnd="38dp"
        android:layout_marginBottom="359dp"
        android:ems="10"
        android:inputType="number"
        android:textColorHint="@color/material_dynamic_neutral50"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editName"
        app:layout_constraintVertical_bias="0.816"
        android:hint="ID Number" />

    <Button
```



```
    android:id="@+id/btnSendData"
    android:layout_width="192dp"
    android:layout_height="61dp"
    android:layout_marginBottom="260dp"
    android:text="Send Data"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent" />
```

<ImageView

```
    android:id="@+id/imageView"
    android:layout_width="100dp"
    android:layout_height="168dp"
    android:layout_marginTop="4dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/btnSendData"
    app:srcCompat="@drawable/book" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

activity_second.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">

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="103dp"
        android:layout_marginBottom="338dp"
        android:fontFamily="sans-serif-black"
        android:text="WELCOME TO MY LAB TASK 1 APP"
        android:textSize="18sp"
        app:layout_constraintBottom_toTopOf="@+id/imageView6"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="270dp"
        android:layout_height="48dp"
        android:layout_marginStart="4dp"
        android:layout_marginTop="56dp"
        android:fontFamily="monospace"
        android:gravity="center"
        android:text="HELLO"
        android:textSize="24sp"
        app:layout_constraintStart_toStartOf="@+id/textView3"
        app:layout_constraintTop_toBottomOf="@+id/textView3" />

    <TextView
        android:id="@+id/txtName"
        android:layout_width="264dp"
        android:layout_height="56dp"
        android:layout_marginStart="4dp"
        android:layout_marginTop="52dp"
        android:fontFamily="monospace"
        android:gravity="center"
        android:text="TextView"
        android:textAlignment="center"
        android:textSize="18sp"
        app:layout_constraintStart_toStartOf="@+id/textView4"
        app:layout_constraintTop_toBottomOf="@+id/textView4" />

    <TextView
        android:id="@+id/txtIDNumber"
        android:layout_width="265dp"
        android:layout_height="56dp"
        android:layout_marginTop="33dp"
        android:fontFamily="monospace"
        android:gravity="center"
        android:text="TextView"
        android:textAlignment="center"
```

```
        android:textSize="18dp"
        app:layout_constraintStart_toStartOf="@+id/txtName"
        app:layout_constraintTop_toBottomOf="@+id/txtName" />

    <ImageView
        android:id="@+id/imageView6"
        android:layout_width="117dp"
        android:layout_height="0dp"
        android:layout_marginBottom="98dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView3"
        app:srcCompat="@drawable/book" />

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

AndroidManifest.xml

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

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.LabTask1_25DDT21F1023"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER"
/>
            </intent-filter>
        </activity>
        <activity android:name=".SecondActivity"></activity>
    </application>

</manifest>
```