

ASSIGNMENT NO - 1

Aim : write a simple android program to create a form for new student enrolled in your institute , which must include some basic information of the student like – Student ID , student name , sex, email , dob etc.

➤ **Description:**

I have to create an android application for registration of the student which consist of some of the field like name , sex, student reg_no, email etc:

- Create a new project.
- Name them as registration form.
- It will generate activity_main.xml and mainactivity.java file.
- Create another activity to show the result.

➤ **Expected input:**

My expected input is the student detail.

➤ **Expected output:**

My expected output is the page showing the registration has been completed .

➤ **Discussion:**

In this program I have to create the form which will take the user input and show that the user has been successfully registered in other page.

➤ **Error checking :**

I have done the error checking there is no any error the program is running well and fine.

➤ **Assumption taken:**

There is no any assumption.

➤ **Scope for improvement:**

Its user interface should be improved and database should be connected to store the data.

➤ **Additional feature :**

It will display all the data in proper format.

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"
    android:layout_margin="10dp"
    android:background="#D6D5CC"
    android:textAlignment="center"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/name"
        android:layout_width="370dp"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Enter your name"
        android:inputType="textPersonName"
        android:textAlignment="center"
        android:textColor="@color/design_default_color_error"
        android:textColorHint="#2196F3"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.142" />

    <EditText
        android:id="@+id/editTextTextPostalAddress"
        android:layout_width="370dp"
        android:layout_height="50dp"
        android:ems="10"
        android:hint="Enter your Address"
        android:inputType="textPostalAddress"
        android:textAlignment="center"
        android:textColorHint="#2196F3"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.232" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="383dp"
        android:layout_height="52dp"
        android:text="REGISTARION FORM"
        android:textAlignment="center"
        android:textSize="34sp"
```

```

        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.413"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.044" />

<EditText
    android:id="@+id/reg"
    android:layout_width="370dp"
    android:layout_height="47dp"
    android:ems="10"
    android:hint="Enter your registration no"
    android:inputType="number"
    android:textAlignment="center"
    android:textColorHint="#2196F3"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.336" />

<EditText
    android:id="@+id/editTextTextEmailAddress"
    android:layout_width="370dp"
    android:layout_height="61dp"
    android:ems="10"
    android:hint="Enter your email address"
    android:inputType="textEmailAddress"
    android:textAlignment="center"
    android:textColorHint="#2196F3"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.589"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.432" />

<RadioGroup
    android:id="@+id/radioGroup"
    android:layout_width="384dp"
    android:layout_height="56dp"
    android:orientation="horizontal"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.59">

    <RadioButton
        android:id="@+id/radioButton1"
        android:layout_width="127dp"
        android:layout_height="56dp"
        android:layout_marginLeft="35dp"
        android:text="female"
        android:textColor="@color/teal_200"

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        android:textSize="20sp" />

<RadioButton
    android:id="@+id/radioButton"
    android:layout_width="127dp"
    android:layout_height="56dp"
    android:text="male"
    android:textColor="#4CAF50"
    android:textSize="20sp" />

</RadioGroup>

<TextView
    android:id="@+id/textView2"
    android:layout_width="223dp"
    android:layout_height="29dp"
    android:text="Gender"
    android:textAlignment="center"
    android:textSize="20sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.502"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.518" />

<Button
    android:id="@+id/btn"
    android:layout_width="196dp"
    android:layout_height="69dp"
    android:background="#CDDC39"
    android:text="SUBMIT"
    android:textAlignment="center"
    app:iconTint="#CDDC39"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.989" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Date of birth"
    android:textAlignment="center"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.673" />

<EditText
    android:id="@+id/dd"
    android:layout_width="120dp"
    android:layout_height="50dp"
    android:ems="10"
    android:hint="DD"

```

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        android:inputType="number"
        android:textAlignment="center"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.011"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.752" />

<EditText
    android:id="@+id/mm"
    android:layout_width="120dp"
    android:layout_height="50dp"
    android:ems="10"
    android:hint="MM"
    android:inputType="number"
    android:textAlignment="center"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="@+id/btn"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.761" />

<EditText
    android:id="@+id/yy"
    android:layout_width="120dp"
    android:layout_height="50dp"
    android:ems="10"
    android:hint="YYYY"
    android:inputType="number"
    android:textAlignment="center"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.977"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.752" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity_main2.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=".MainActivity2">

    <TextView
        android:id="@+id/output"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```

        android:textSize="34sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.kt

```

package com.example.labfirstproject

import android.content.Intent
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.view.View
import android.widget.Button
import android.widget.EditText
import android.widget.Toast

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val name = findViewById<EditText>(R.id.name)
        val reg = findViewById<EditText>(R.id.reg)
        val dd = findViewById<EditText>(R.id.dd)
        val mm = findViewById<EditText>(R.id.mm)
        val yy = findViewById<EditText>(R.id.yy)
        val submit = findViewById<Button>(R.id.btn)

        submit.setOnClickListener {
            var enteredName = name.text.toString()
            var enteredreg = reg.text.toString()
            var ddl = dd.text.toString()
            var mml = mm.text.toString()
            var yyl = yy.text.toString()
            if (enteredName=="")
            {
                //greetingTextView.text = ""
                Toast.makeText(
                    this@MainActivity,
                    "please enter your name",
                    Toast.LENGTH_SHORT
                ).show()
            }
            else if ((enteredreg=="") || (enteredreg.length < 10))
            {
                //greetingTextView.text = ""
                Toast.makeText(
                    this@MainActivity,
                    "please enter your registration no of 10 character",
                    Toast.LENGTH_SHORT
                ).show()
            }
            else if (ddl =="" || ddl.toInt()>31 || ddl.toInt()<1)
            {
                Toast.makeText(
                    this@MainActivity,
                    "please enter the proper date between 1 and 31",

```

```

        Toast.LENGTH_SHORT
    ).show()
}
else if (mm1 == "" || mm1.toInt() > 12 || mm1.toInt() < 1)
{
    Toast.makeText(
        this@MainActivity,
        "please enter the proper month between 1 and 12",
        Toast.LENGTH_SHORT
    ).show()
}
else if (yy1 == "" || yy1.toInt() > 2007 || yy1.toInt() < 1995)
{
    Toast.makeText(
        this@MainActivity,
        "please enter the proper year less than 2007",
        Toast.LENGTH_SHORT
    ).show()
}
else
{
    val intent = Intent(this, MainActivity2::class.java)
    intent.putExtra("USER", enteredName)
    startActivity(intent)
}
}
}
}

```

MainActivity2.kt

```

package com.example.labfirstproject

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.TextView

class MainActivity2 : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main2)

        val username = intent.getStringExtra("USER")
        val textview = findViewById<TextView>(R.id.output)
        val message = "Welcome , $username, registration completed"
        textview.text = message
    }
}

```

Output

The image displays two side-by-side screenshots of a mobile application interface, both titled "labfirstproject".

Left Screenshot (18:34): Shows the "REGISTARION FORM" with input fields for:

- Enter your name
- Enter your Address
- Enter your registration no
- Enter your email address
- Gender: ☐ female, ☐ male
- Date of birth: DD MM YYYY

A purple "SUBMIT" button is at the bottom.

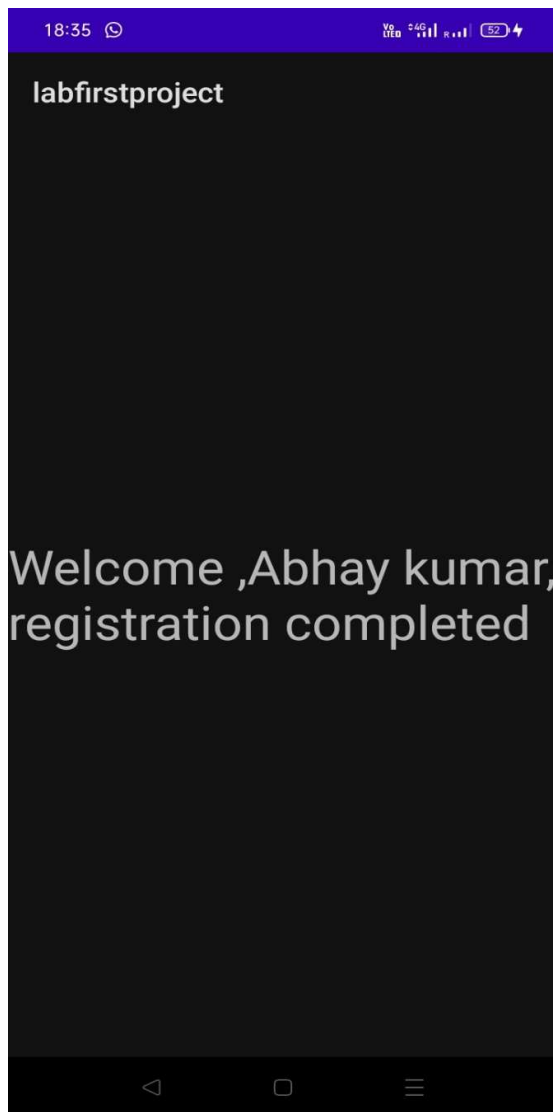
Right Screenshot (18:35): Shows the same form after submission. The fields are populated with:

- Abhay kumar
- dimapur
- 2019105194
- abhay@gmail com
- Gender: ☐ female, ☒ male
- Date of birth: 02 05 2000

A purple "SUBMIT" button is at the bottom.

Registration form

Detail inserted



Registration completed