

Assignment No 1:- Create "Hello Word" Application.

ACTIVITY_MAIN

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:id="@+id/Textview"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_marginBottom="141dp"
        android:text="Hello World!" />

</RelativeLayout>
```

MAINACTIVITY

```
package com.example.user.alst;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

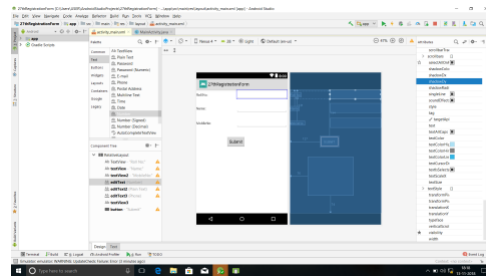
    }
```

OUTPUT



Assignment No 2 :- Android Form Based Application to Create Registration Form for Student with Field (RollNo, StudentName and MobileNo) and on button click display all the entered information On TextView.

ACTIVITY_MAIN DESIGN



```
<?xml version="1.0" encoding="utf-8" ?>
<RelativeLayout
    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:layout_alignBaseline="@+id/editText"
        android:layout_alignParentStart="true"
        android:text="Roll No:" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="69dp"
        android:text="Name: " />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="131dp"
        android:text="MobileNo: " />

    <EditText
        android:id="@+id/editText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```
    android:layout_alignParentEnd="true"
    android:ems="10"
    android:inputType="number"
    android:password="false" />
```

```
<EditText
    android:id="@+id/editText2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBaseline="@+id/textView"
    android:layout_alignParentEnd="true"
    android:ems="10"
    android:inputType="textPersonName" />
```

```
<EditText
    android:id="@+id/editText3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBaseline="@+id/textView2"
    android:layout_alignParentEnd="true"
    android:ems="10"
    android:inputType="phone" />
```

```
<TextView
    android:id="@+id/textView3"
    android:layout_width="193dp"
    android:layout_height="163dp"
    android:layout_alignParentBottom="true"
    android:layout_alignParentStart="true"
    android:layout_marginBottom="74dp"
    android:layout_marginStart="75dp" />
```

```
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_alignParentTop="true"
    android:layout_marginStart="127dp"
    android:layout_marginTop="194dp"
    android:text="Submit" />
```

```
</RelativeLayout>
```

MAIN_ACTIVITY

```
package com.example.user.a27thregistrationform;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

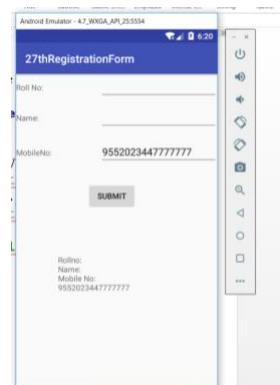
    String r,n,m;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        final EditText rno = findViewById(R.id.editText);
        final EditText name = findViewById(R.id.editText2);
        final EditText mno = findViewById(R.id.editText3);
        final Button btn = findViewById(R.id.button);
        final TextView txt = findViewById(R.id.textView3);

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                r = rno.getText().toString();
                n = name.getText().toString();
                m = mno.getText().toString();

                txt.setText("Rollno: "+r+"\nName: "+n+"\nMobile No: "+m);
            }
        });
    }
}
```

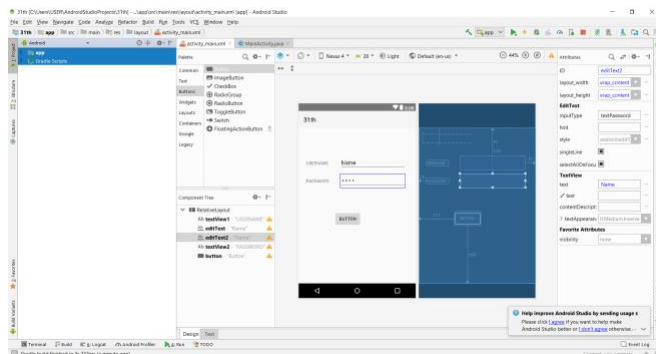
OUTPUT



Assignment No 3:-Android Form Based Application to Create Registration Form for Student With Field(Username and Password) and on button click validate it with your name if its valid show "Valid Credential" otherwise show "Wrong Credential" on Toast.

ACTIVITY_MAIN

DESIGN



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    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:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/editText"
        android:layout_alignStart="@+id/textView2"
        android:text="USERNAME"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintHorizontal_bias="0.1"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.13" />

    <EditText
        android:id="@+id/editText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentTop="true"
        android:layout_marginEnd="33dp"
        android:layout_marginTop="91dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        tools:layout_editor_absoluteX="162dp"
        tools:layout_editor_absoluteY="47dp" />
```

```

<EditText
    android:id="@+id/editText2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignStart="@+id/editText"
    android:layout_marginTop="150dp"
    android:ems="10"
    android:inputType="textPassword"
    android:text="Name"
    tools:layout_editor_absoluteX="153dp"
    tools:layout_editor_absoluteY="139dp" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBaseline="@+id/editText2"
    android:layout_alignParentStart="true"
    android:layout_marginStart="25dp"
    android:text="PASSWORD"
    tools:layout_editor_absoluteX="31dp"
    tools:layout_editor_absoluteY="147dp" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_alignParentStart="true"
    android:layout_marginBottom="189dp"
    android:layout_marginStart="117dp"
    android:text="Button"
    tools:layout_editor_absoluteX="134dp"
    tools:layout_editor_absoluteY="304dp" />

```

```
</RelativeLayout>
```

MAIN_ACTIVITY

```

package com.example.user.a31th;

import android.support.v7.app.AppCompatActivity;
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 {

    @Override

```

```

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

    final Button btn=findViewById(R.id.button);
    final EditText e1=findViewById(R.id.editText);
    final EditText e2=findViewById(R.id.editText2);

    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {

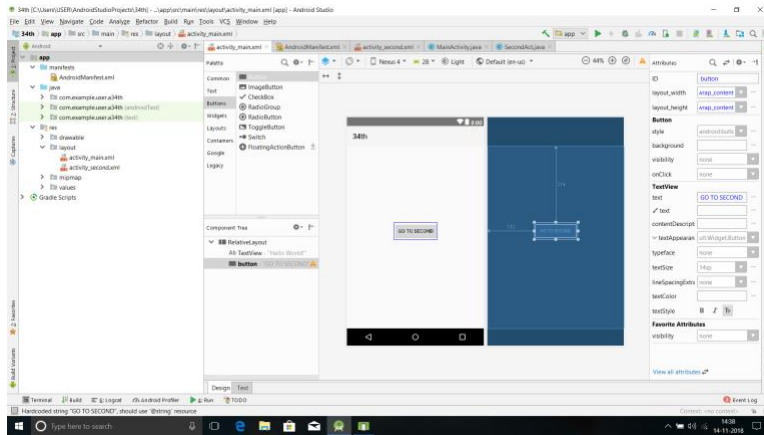
            String ID,PASS;
            ID = e1.getText().toString();
            PASS = e2.getText().toString();
            if(ID.equals("IMRD") && PASS.equals("12345"))
            {
                Toast.makeText(MainActivity.this,"valid
Credential",Toast.LENGTH_SHORT).show();

            }
            else
            {
                Toast.makeText(MainActivity.this," WRONG
Credetial",Toast.LENGTH_LONG).show();
            }
        }
    });
}

```

Assignment No 4:- Android program to use Android **Explicit Intent** that calls one activity from another and vice versa.

ACTIVITY_MAIN DESIGN



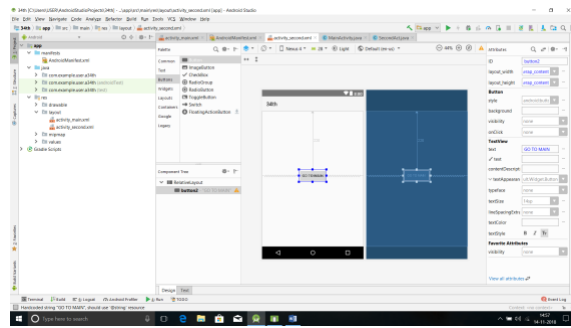
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="0dp"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_marginStart="132dp"
        android:layout_marginTop="214dp"
        android:text="GO TO SECOND" />

</RelativeLayout>
```

SECOND_ACTIVITY.XML



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

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="220dp"
        android:text="GO TO MAIN"
        tools:layout_editor_absoluteX="132dp"
        tools:layout_editor_absoluteY="221dp" />
</RelativeLayout>
```

ANDROID.MANIFEST

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.user.a34th">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

        <activity android:name=".SecondAct">
```

```
</activity>
</application>
```

```
</manifest>
```

MAIN_ACTIVITY.JAVA

```
package com.example.user.a34th;

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 {

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

        final Button btn=findViewById(R.id.button);

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent i = new Intent(MainActivity.this,SecondAct.class);
                startActivity(i);
            }
        });
    }
}
```

SECOND_ACT.JAVA

```
package com.example.user.a34th;

import android.content.Intent;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;

public class SecondAct extends AppCompatActivity {
    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_second);
    }
}
```

```
Button btn = findViewById(R.id.button2);

btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i = new Intent(SecondAct.this, MainActivity.class);
        startActivity(i);
    }
});
}
```

Assignment No 5:- Android program to demonstrate scroll view.

ACTIVITY_MAIN.xml

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

        <Button
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/b1"
            android:text="Button 1"
            >

        </Button>
        <Button
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/b2"
            android:text="Button 1\2"
            >

        </Button>
        <Button
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/b3"
            android:text="Button 3"
            >

        </Button>
        <Button
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/b4"
            android:text="Button 4"
            >

        </Button><Button
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:id="@+id/b5"
            android:text="Button 5"
            >

        </Button>
        <Button
            android:layout_width="match_parent"
```

```

        android:layout_height="match_parent"
        android:id="@+id/b6"
        android:text="Button 6"
    >

</Button><Button
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/b7"
    android:text="Button 7"
>

</Button>
    <Button
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/b8"
        android:text="Button 8"
    >

    </Button><Button
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/b9"
        android:text="Button 9"
    >

    </Button>
    <Button
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/b10"
        android:text="Button 10"
    >

    </Button><Button
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/b11"
        android:text="Button 11"
    >

    </Button>
    <Button
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/b12"
        android:text="Button 12"
    >

    </Button>
</LinearLayout>

</RelativeLayout>

```