**PROGRAM NO:5 DATE:19-09-2022**

**AIM:Implement validation on various UI control**

**Program code:**

**Activity.Main**

*<?*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=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Registration"  
 android:textSize="3dp" />  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Name"  
 android:id="@+id/name"  
 />  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Mobile No:"  
 android:id="@+id/mno"/>  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Age"  
 android:id="@+id/age"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="Gender"  
 android:textSize="20dp"/>  
 <RadioGroup  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/rd">  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/rd1"  
 android:text="Male"/>  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/rd2"  
 android:text="Female"/>  
 </RadioGroup>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/btn"  
 android:text="Submit"/>  
  
  
 <CheckBox  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="I agree all terms and conditions"  
 android:id="@+id/cb"/>  
  
  
</LinearLayout>

**Main.java**

package com.example.validation;  
  
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;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 EditText name;  
 EditText mno;  
 EditText age;  
 RadioGroup radioGroup;  
 RadioButton male;  
 RadioButton female;  
 CheckBox checkBox;  
 Button button;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 name=findViewById(R.id.*name*);  
 mno=findViewById(R.id.*mno*);  
 age=findViewById(R.id.*age*);  
 radioGroup=findViewById(R.id.*rd*);  
 male=findViewById(R.id.*rd1*);  
 female=findViewById(R.id.*rd2*);  
 checkBox=findViewById(R.id.*cb*);  
 button=findViewById(R.id.*btn*);  
 button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if (error()){  
 Intent i=new Intent(MainActivity.this,Login.class);  
  
 startActivity(i);  
 }  
 }  
 });  
  
 }  
 private boolean error(){  
 if (name.getText().toString().length()==0){  
 Toast.*makeText*(getApplicationContext(), "please enter name",Toast.*LENGTH\_LONG*).show();  
 return false;  
 }else if (mno .getText().toString().length()==0){  
 Toast.*makeText*(getApplicationContext(), "please enter mobile number",Toast.*LENGTH\_LONG*).show();  
 return false;  
  
 }else if (mno.getText().toString().length()!=10){  
 Toast.*makeText*(getApplicationContext(), "please enter 10 number",Toast.*LENGTH\_LONG*).show();  
 return false;  
 }else if (!male.isChecked()&& ! female.isChecked()){  
 Toast.*makeText*(getApplicationContext(), "please choose radio button",Toast.*LENGTH\_LONG*).show();  
 return false;  
 }else if(!checkBox.isChecked()){  
 Toast.*makeText*(getApplicationContext(), "please click on checkbox",Toast.*LENGTH\_LONG*).show();  
 return false;  
 }else {  
 return true;  
 }  
 }  
}

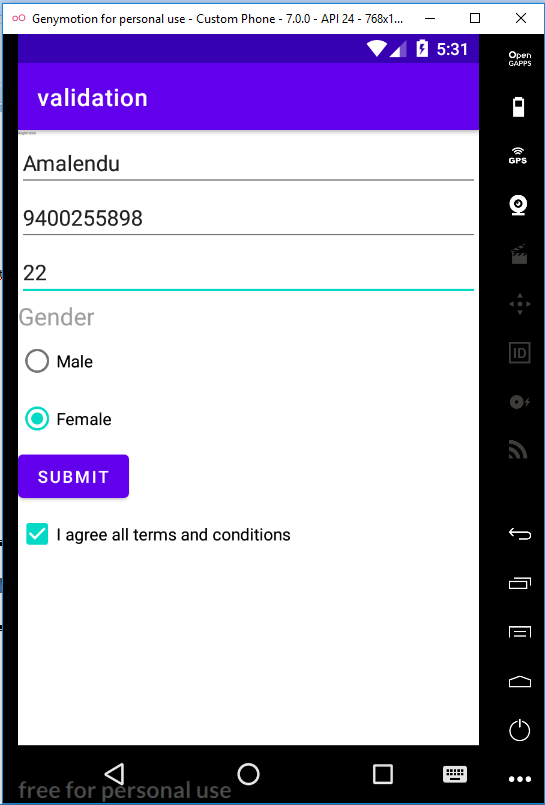
**Activity\_Login.xml**

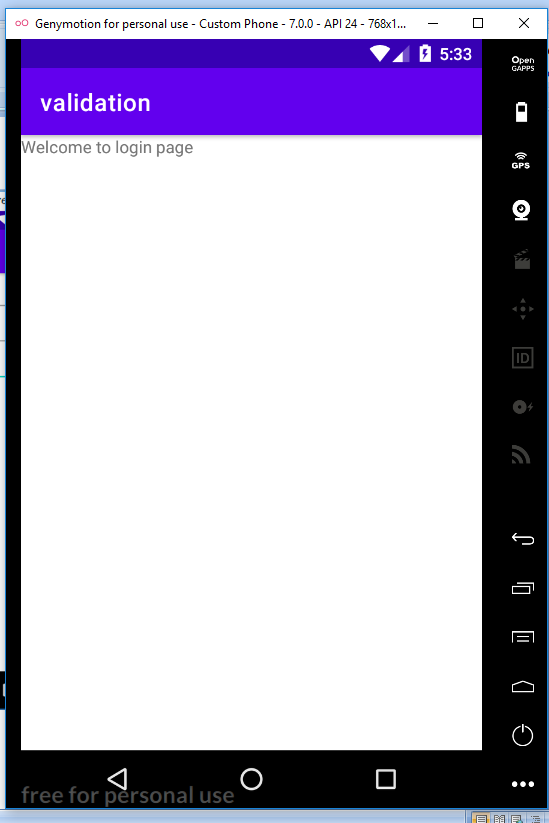
*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".Login">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Welcome to login page"  
 tools:layout\_editor\_absoluteX="150dp"  
 tools:layout\_editor\_absoluteY="43dp" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**Activity\_Login.java**

package com.example.validation;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class Login extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login*);  
 }  
}

**OUTPUT:**

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