**Program No:5 19.09.2022**

Program to implement validation on various UI Controls.

**Program Code:**

**activity.xml:**

*<?*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="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="REGISTRATION"  
 android:textColor="@color/design\_default\_color\_error"  
 android:textSize="30dp" />  
  
 <EditText  
 android:id="@+id/name"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Name" />  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="MobileNumber"  
 android:id="@+id/mobile"/>  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Age"  
 android:id="@+id/age" />  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Gender"  
 android:id="@+id/gender"  
 android:textSize="20dp"  
 android:textColor="@color/design\_default\_color\_on\_primary"/>  
 <RadioGroup  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/RG" >  
  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/radiobutton1"  
 android:text="Male" />  
  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/radiobutton2"  
 android:text="Female" />  
 </RadioGroup>  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"  
 android:id="@+id/button" />  
  
 <CheckBox  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="I agree all terms and conditions"  
 android:id="@+id/checkbox"/>  
  
</LinearLayout>

**mainactivity.java:**

package com.example.myapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.DialogInterface;  
import android.os.Bundle;  
import android.widget.Button;  
import android.view.View;  
import android.widget.Toast;  
import android.content.Intent;  
import android.widget.CheckBox;  
import android.widget.RadioGroup;  
import android.widget.EditText;  
import android.widget.RadioButton;  
  
import com.google.android.material.chip.ChipGroup;  
  
public class MainActivity extends AppCompatActivity {  
 EditText name;  
 EditText mobileno;  
 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);  
 mobileno=findViewById(R.id.mobile);  
 age=findViewById(R.id.age);  
 radiogroup=findViewById(R.id.RG);  
 male=findViewById(R.id.radiobutton1);  
 female=findViewById(R.id.radiobutton2);  
 checkbox=findViewById(R.id.checkbox);  
 button=findViewById(R.id.button);  
 Button b=findViewById(R.id.button);  
 button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if(error()) {  
 Intent p = new Intent(MainActivity.this, login.class);  
 startActivity(p);  
 }  
 }  
 });  
 }  
 private boolean error() {  
 if (name.getText().toString().length()==0){  
 Toast.makeText(getApplicationContext(),"Please enter the name",Toast.*LENGTH\_LONG*).show();  
 return false;  
 }  
 else if (mobileno.getText().toString().length()==0) {  
 Toast.makeText(getApplicationContext(), "Please enter mobile number", Toast.*LENGTH\_LONG*).show();  
 return false;  
 }  
 else if (mobileno.getText().toString().length()!=10) {  
 Toast.makeText(getApplicationContext(), "Please enter 10 numbers", Toast.*LENGTH\_LONG*).show();  
 return false;  
 }  
 else if (age.getText().toString().length()==0){  
 Toast.makeText(getApplicationContext(),"Please enter age",Toast.*LENGTH\_LONG*).show();  
 return false;  
 }  
 else if (!male.isChecked() && !female.isChecked())  
 {  
 Toast.makeText(getApplicationContext(),"Please choose gender", 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;  
 }  
 }  
}

**activityLogin.xml:**

*<?*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=".activityLogin">  
  
 <TextView  
 android:id="@+id/text"  
 android:layout\_width="312dp"  
 android:layout\_height="92dp"  
 android:text="Welcome to my login page"  
 android:textColor="#FFC107" />  
</LinearLayout>

**activityLogin.java:**

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

**Output**

