**PROGRAM NO:5 Date:20-09-2022**

**Aim: Implement validation on various UI control.**

**Program code:**

**Activity\_main.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="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="REGISTRATION"  
 android:textColor="@color/design\_default\_color\_error"  
 android:textSize="30dp" />  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="Name"  
 android:id="@+id/name" />  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="Mobile No:"  
 android:id="@+id/mob" />  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:hint="AGE"  
 android:id="@+id/age" />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Gender"  
 android:textSize="20dp"  
 android:textColor="@color/black" />  
 <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/b1"  
 android:text="Male" />  
 <RadioButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/b2"  
 android:text="Female" />  
 </RadioGroup>  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="SUBMIT"  
 android:id="@+id/button1" />  
 <CheckBox  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="I agree all terms and conditions"  
 android:id="@+id/checkbox" />

</LinearLayout>

**Main Activity.java**

package com.example.myapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Context;  
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 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.*mob*);  
 age=findViewById(R.id.*age*);  
 radioGroup=findViewById(R.id.*rg*);  
 male=findViewById(R.id.*b1*);  
 female=findViewById(R.id.*b2*);  
 checkbox=findViewById(R.id.*checkbox*);  
 button=findViewById(R.id.*button1*);  
 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 your name",Toast.*LENGTH\_LONG*).show();  
 return false;  
 }  
 else if (mobileno.getText().toString().length()==0) {  
 Toast.*makeText*(getApplicationContext(), "please enter your mobile number",Toast.*LENGTH\_LONG*).show();  
 return false;  
 }  
 else if (mobileno.getText().toString().length()!=10){  
 Toast.*makeText*(getApplicationContext(), "please enter your 10 digit number", Toast.*LENGTH\_LONG*).show();  
 return false;  
 }  
 else if (! male.isChecked() && ! female.isChecked()) {  
 Toast.*makeText*(getApplicationContext(), "please enter your 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;  
 }  
 }  
  
}

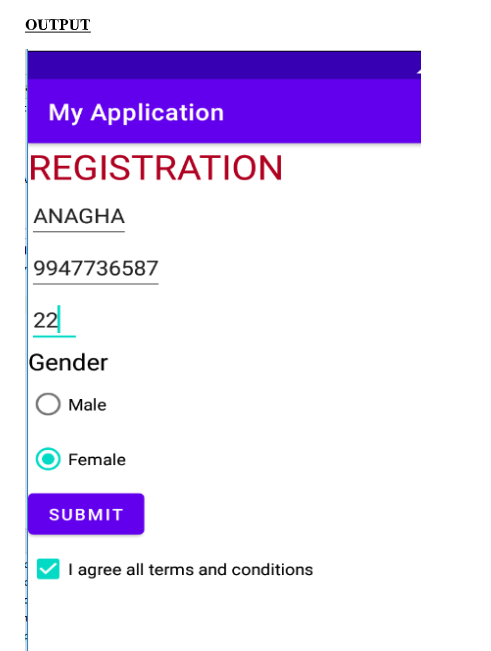
**activity\_login.xml**

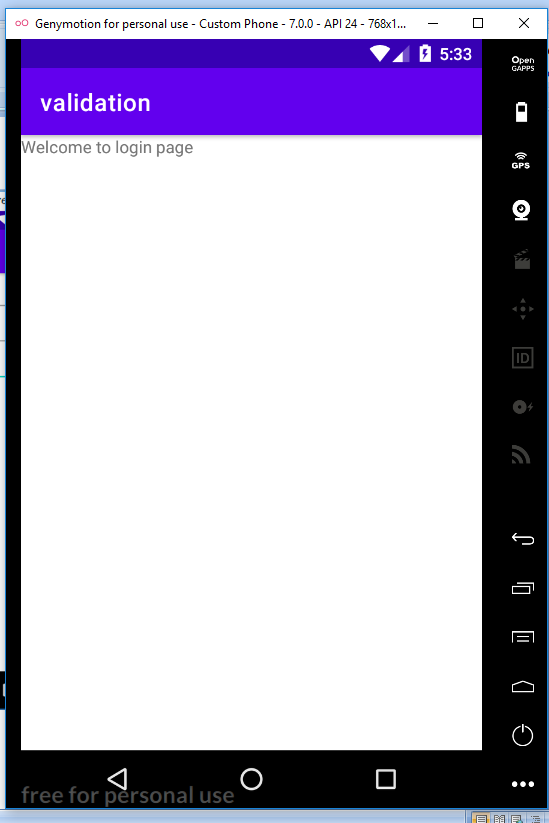
*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 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="187dp"  
 tools:layout\_editor\_absoluteY="66dp" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**Login.java**

package com.example.myapplication;  
  
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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