

Program no:5

Aim Implement validations on various UI controls

XML Code:

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

```
<LinearLayout
```

```
    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" android:orientation="vertical"
```

```
    tools:context=".MainActivity"
```

```
    tools:ignore="HardcodedText">
```

```
    <EditText
```

```
        android:id="@+id/firstName"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:layout_marginStart="16dp"
```

```
        android:layout_marginTop="16dp"
```

```
        android:layout_marginEnd="16dp"
```

```
        android:hint="First Name"
```

```
        android:inputType="text"/>
```

```
    <EditText
```

```
        android:id="@+id/lastName"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:layout_marginStart="16dp"
```

```
        android:layout_marginTop="16dp"
```

```
        android:layout_marginEnd="16dp"
```

```
android:hint="Last Name"  
android:inputType="text" />
```

```
<EditText
```

```
    android:id="@+id/email"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginStart="16dp"  
    android:layout_marginTop="16dp"  
    android:layout_marginEnd="16dp"  
    android:hint="Email"  
    android:inputType="textEmailAddress" />
```

```
<EditText
```

```
    android:id="@+id/password"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
  
    android:layout_marginStart="16dp"  
    android:layout_marginTop="16dp"  
    android:layout_marginEnd="16dp"  
    android:hint="Password"  
    android:inputType="textPassword" />
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="8dp"  
    android:gravity="end"
```

```
android:orientation="horizontal">
```

```
<Button
```

```
    android:id="@+id/cancelButton"  
    style="@style/Widget.AppCompat.Button.Borderless"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginEnd="4dp" android:text="CANCEL"  
    android:textColor="@color/white" />
```

```
<Button
```

```
    android:id="@+id/proceedButton"  
  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginEnd="16dp"  
    android:backgroundTint="@color/black"  
    android:text="PROCEED"  
    android:textColor="@android:color/white"  
    tools:ignore="ButtonStyle" />  
</LinearLayout>  
  
</LinearLayout>
```

Java Code:

```
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.EditText;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    Button bCancel, bProceed;
```

```
    EditText etFirstName, etLastName, etEmail, etPassword; boolean
```

```
    isAllFieldsChecked = false;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        bProceed = findViewById(R.id.proceedButton);
```

```
        bCancel = findViewById(R.id.cancelButton);
```

```
        etFirstName = findViewById(R.id.firstName);
```

```
        etLastName = findViewById(R.id.lastName); etEmail =
```

```
        findViewById(R.id.email); etPassword =
```

```
        findViewById(R.id.password);
```

```
        bProceed.setOnClickListener(new
```

```
        View.OnClickListener() {
```

```
            @Override
```

```
                public void onClick(View v) {
```

```
                    isAllFieldsChecked = CheckAllFields(); if
```

```
                    (isAllFieldsChecked) {
```

```
                        Intent i = new Intent(MainActivity.this, MainActivity2.class);
```

```
                        startActivity(i);
```

```
                    }
```

```
            }
```

```

    });

    bCancel.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v){

            MainActivity.this.finish();
            System.exit(0);
        }
    });
}

private boolean CheckAllFields() { if
    (etFirstName.length() == 0) {
        etFirstName.setError("This field is required"); return
        false;
    }

    if (etLastName.length() == 0) {
        etLastName.setError("This field is required"); return
        false;
    }

    if (etEmail.length() == 0) {
        etEmail.setError("Email is required");
        return false;
    }

    if (etPassword.length() == 0) {
        etPassword.setError("Password is required"); return

```

false;

} else if (etPassword.length() < 8) {

etPassword.setError("Password must be minimum 8 characters"); return

false;

}

return true;

}

}

Output:

10:58

validation

First Name

Last Name

Email

Password

This field is required

PROCEED

1234567890

q w e r t y u i o p

a s d f g h j k l

z x c v b n m

?123 , . >

