Practical – 24: Write a program to demonstrate use of Vertical and Horizontal Scroll.

MainActivity.java

```
package com.example.scrollview;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
   }
}
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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</pre>
        android:layout width="match parent"
        android:layout height="match parent"
        android:layout_marginTop="25dp">
        <ScrollView
            android:layout width="match parent"
            android:layout height="150dp"
            android:id="@+id/horizontalScrollView">
            <LinearLayout
                android:layout width="wrap content"
                android:layout height="wrap content"
                android:orientation="vertical">
                <Button
                    android:id="@+id/button1"
                    android:layout width="wrap content"
                    android:layout height="wrap content"
                    android:text="Button1" />
                <Button
                    android:layout width="wrap content"
                    android:layout height="wrap content"
                    android:text="Button2"
                    android:id="@+id/button2" />
                <Button
                    android:layout width="wrap content"
                    android:layout height="wrap content"
                    android:text="Button3"
```

```
android:id="@+id/button3" />
                <Button
                    android:layout width="wrap content"
                    android:layout height="wrap content"
                    android:text="Button4"
                    android:id="@+id/button4" />
                <Button
                    android:layout width="wrap content"
                    android:layout height="wrap content"
                    android:text="Button5"
                    android:id="@+id/button5" />
                <Button
                    android:layout_width="wrap_content"
                    android:layout height="wrap content"
                    android:text="Button6"
                    android:id="@+id/button6" />
                <Button
                    android:layout_width="wrap_content"
                    android:layout height="wrap content"
                    android:text="Button7"
                    android:id="@+id/button7" />
                <Button
                    android:layout width="wrap content"
                    android:layout height="wrap content"
                    android:text="Button8"
                    android:id="@+id/button8"/>
            </LinearLayout>
        </scrollView>
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

output:

