

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
    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
        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 :

