## 1. Layout XML (activity\_main.xml):

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:padding="16dp"
  tools:context=".MainActivity">
  <ImageSwitcher
    android:id="@+id/imageSwitcher"
    android:layout_width="match_parent"
    android:layout_height="match_parent" />
  <Button
    android:id="@+id/prevButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout alignParentStart="true"
    android:onClick="prevImage"
    android:text="Previous" />
  <Button
    android:id="@+id/nextButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```
android:layout_alignParentBottom="true"
android:layout_alignParentEnd="true"
android:onClick="nextImage"
android:text="Next" />
```

</RelativeLayout>

## 2. Java code (MainActivity.java):

```
import android.os.Bundle;
import android.view.View;
import android.widget.ImageSwitcher;
import android.widget.ImageView;
import android.widget.Button;
import android.widget.ViewSwitcher;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  private ImageSwitcher imageSwitcher;
  private int[] images = {R.drawable.image1, R.drawable.image2, R.drawable.image3};
  private int currentIndex = 0;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    imageSwitcher = findViewById(R.id.imageSwitcher);
    imageSwitcher.setFactory(new ViewSwitcher.ViewFactory() {
```

```
@Override
    public View makeView() {
      ImageView imageView = new ImageView(getApplicationContext());
      imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);
      return imageView;
   }
 });
 // Display the first image initially
 imageSwitcher.setImageResource(images[currentIndex]);
}
public void nextImage(View view) {
  if (currentIndex < images.length - 1) {</pre>
    currentIndex++;
 } else {
    currentIndex = 0;
  }
 imageSwitcher.setImageResource(images[currentIndex]);
}
public void prevImage(View view) {
 if (currentIndex > 0) {
    currentIndex--;
 } else {
    currentIndex = images.length - 1;
 }
 imageSwitcher.setImageResource(images[currentIndex]);
}
```