</shape>

1. Select Empty Views Activity and Create a Project

```
1. App/res/values/styles:
   <?xml version="1.0" encoding="utf-8"?>
   <resources>
     <style name="AppTheme" parent="Theme.AppCompat.Light.NoActionBar">
       <item name="colorPrimary">@color/colorPrimary</item>
       <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
       <item name="colorAccent">@color/colorAccent</item>
     </style>
   </resources>
2. App/res/values/colors:
   <?xml version="1.0" encoding="utf-8"?>
   <resources>
     <color name="colorPrimary">#4a148c</color>
     <color name="colorPrimaryDark">#4a148c</color>
     <color name="colorAccent">#03DAC5</color>
     <color name="colorWhite">#ffffff</color>
     <color name="colorBlack">#000000</color>
     <color name="colorPurple">#4a148c</color>
   </resources>
3. App \rightarrow Right Click \rightarrow New \rightarrow Vector Asset \rightarrow 50*50 \rightarrow save in drawables.
4. Drawable → new cut card background.xml
   <?xml version="1.0" encoding="utf-8"?>
   <shape xmlns:android="http://schemas.android.com/apk/res/android"</p>
     android:shape="rectangle">
     <solid android:color="@color/colorPurple"/>
     <corners
       android:topLeftRadius="400dp"
       android:bottomRightRadius="0dp"/>
```

```
RelativeLayout (Root Layout)
— TextView (Title: "My Dashboard")
☐ GridLayout (Contains 6 CardViews arranged in 3 rows x 2 columns)
   — CardView 1 (Home)
   — CardView 2 (Audio)
   — CardView 3 (Chat)
   — CardView 4 (Camera)
   — CardView 5 (Bluetooth)
  └── CardView 6 (Settings)
Each CardView contains:
  LinearLayout (Vertical)
     ├— ImageView (Icon)
    └── TextView (Label)
      <?xml version="1.0" encoding="utf-8"?>
      <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
        xmlns:app="http://schemas.android.com/apk/res-auto"
        xmlns:tools="http://schemas.android.com/tools"
        android:id="@+id/main"
        android:layout width="match parent"
        android:layout height="match parent"
        android:background="@drawable/cut card background"
        tools:context=".MainActivity">
        <TextView
          android:id="@+id/textView"
          android:layout_width="wrap_content"
          android:layout_height="wrap_content"
          android:text="My Dashboard"
          android:textSize="30sp"
          android:textStyle="bold"
          android:textColor="@color/colorBlack"
          android:layout margin="12dp"/>
```

```
<GridLayout
  android:layout_width="match_parent"
  android:layout height="match parent"
  android:layout_below="@+id/textView"
  android:layout marginTop="20dp"
  android:layout margin="20dp"
  android:columnCount="2"
  android:rowCount="3">
  <androidx.cardview.widget.CardView
    android:id="@+id/cardHome"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout gravity="fill"
    android:layout_columnWeight="1"
    android:layout_rowWeight="1"
    android:layout column="0"
    android:layout row="0"
    app:cardCornerRadius="8dp"
    android:elevation="8dp"
    app:cardUseCompatPadding="true">
    <LinearLayout
      android:layout width="wrap content"
      android:layout_height="wrap_content"
      android:layout_gravity="center_vertical|center_horizontal"
      android:gravity="center"
      android:orientation="vertical">
      <lmageView
        android:layout height="wrap content"
        android:layout width="wrap content"
        android:src="@drawable/ic home"/>
      <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Home"
        android:textSize="16sp"
        android:textStyle="bold"
        android:textColor="@color/colorBlack"/>
    </LinearLayout>
  </androidx.cardview.widget.CardView>
</GridLayout>
```

```
</RelativeLayout>
```

6. Activity_main.java

```
MainActivity (extends AppCompatActivity)
— Member Variables:
  — CardView cardHome
  — CardView cardChat
  — CardView cardSettings
   — CardView cardBluetooth
   — CardView cardCamera
  └─ CardView cardAudio
— onCreate(Bundle savedInstanceState)
  — setContentView (set XML layout)
   — Initialize all CardViews using findViewById
  Set onClickListeners for each CardView
    — On click → call showToast() with respective label
showToast(String message)
  L—Displays a short Toast message with the given text
package com.example.cardview;
import android.content.Context;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.cardview.widget.CardView;
import androidx.core.graphics.Insets;
```

```
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  CardView cardHome; //To Be done for all the 6 cards
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    //EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
    cardHome=findViewById(R.id.cardHome); //To be done for all the 6 cards
cardHome.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view)
        showToast("Home Clicked");
      }
    });
//To be done for all the 6 cards.
  }
  public void showToast(String message)
  {
    Toast.makeText(this, message, Toast.LENGTH SHORT).show();
  }
}
```