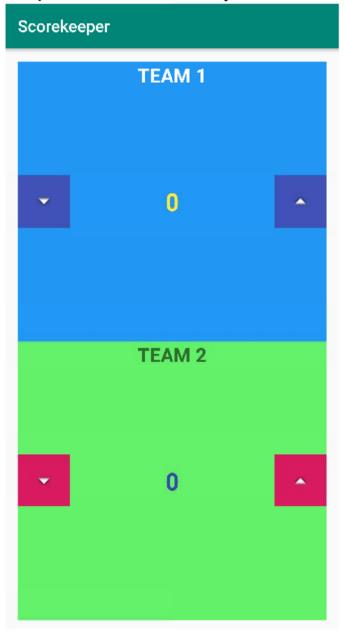
Bước 1: Tạo empty project

Bước 2: Tạo giao diện cơ bản cho Main Activity



```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"</pre>
```

```
android:padding="16dp"
tools:context=".MainActivity">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_weight="1"
    android:background="#2196F3">
    <ImageButton</pre>
        android:id="@+id/btnDown"
        android:layout_width="64dp"
        android:layout_height="64dp"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout centerVertical="true"
        android:background="#3F51B5"
        app:srcCompat="@android:drawable/arrow_down_float" />
    <ImageButton</pre>
        android:id="@+id/btnUp"
        android:layout_width="64dp"
        android:layout_height="64dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_centerVertical="true"
        android:background="#3F51B5"
        app:srcCompat="@android:drawable/arrow_up_float" />
    <TextView
        android:id="@+id/txtScore"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="0"
        android:textColor="#FFEB3B"
        android:textSize="30sp"
        android:textStyle="bold" />
    <TextView
        android:id="@+id/txtTeam"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
```

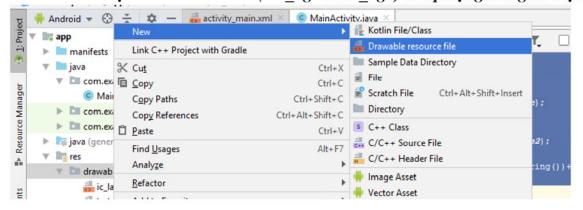
```
android:layout_centerHorizontal="true"
        android:text="TEAM 1"
        android:textColor="@color/colorAccent"
        android:textSize="24sp"
        android:textStyle="bold" />
</RelativeLayout>
<RelativeLayout
    android:layout_width="match_parent"
    android:layout height="0dp"
    android:layout_weight="1"
    android:background="#63F169">
    <ImageButton</pre>
        android:id="@+id/btnDown2"
        android:layout width="64dp"
        android:layout_height="64dp"
        android:layout_alignParentLeft="true"
        android:layout alignParentStart="true"
        android:layout_centerVertical="true"
        android:background="#D81B60"
        app:srcCompat="@android:drawable/arrow_down_float" />
    <ImageButton</pre>
        android:id="@+id/btnUp2"
        android:layout_width="64dp"
        android:layout_height="64dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:layout_centerVertical="true"
        android:background="#D81B60"
        app:srcCompat="@android:drawable/arrow_up_float" />
    <TextView
        android:id="@+id/txtScore2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="0"
        android:textColor="#3949AB"
        android:textSize="30sp"
        android:textStyle="bold" />
    <TextView
```

```
android:id="@+id/txtTeam2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:text="TEAM 2"
    android:textSize="24sp"
    android:textStyle="bold" />
    </RelativeLayout>
    </LinearLayout>
```

Bước 3: Xử lý sự kiện cho các nút tăng giảm

```
public void downScore(View view) {
        TextView txt=null;
        switch (view.getId()){
            case R.id.btnDown:
                txt = (TextView)findViewById(R.id.txtScore);
                break;
            case R.id.btnDown2:
                txt = (TextView)findViewById(R.id.txtScore2);
        }
        int curPoint =Integer.parseInt(txt.getText().toString())-1;
        txt.setText(Integer.toString(curPoint));
   public void upScore(View view) {
        TextView txt=null;
        switch (view.getId()){
            case R.id.btnUp:
                txt = (TextView)findViewById(R.id.txtScore);
                break;
            case R.id.btnUp2:
                txt = (TextView)findViewById(R.id.txtScore2);
        int curPoint =Integer.parseInt(txt.getText().toString())+1;
        txt.setText(Integer.toString(curPoint));
```

Bước 4: Tạo hình cho button (btn bg và btn bg2) và áp dụng cho giao diện



btn_bg

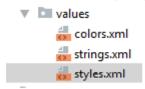
```
<?xml version="1.0" encoding="utf-8"?>
<shape
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:shape="oval">
        <stroke
            android:width="2dp"
            android:color="#3F51B5"/>
        <solid android:color="#3F51B5" />
</shape>
```

btn_bg2

```
<?xml version="1.0" encoding="utf-8"?>
<shape
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:shape="oval">
        <stroke
            android:width="2dp"
            android:color="#D81B60"/>
        <solid android:color="#D81B60" />
</shape>
```

Thay đổi thuộc tính: android:background cho các ImageButton

Bước 5: Tạo style cho các View

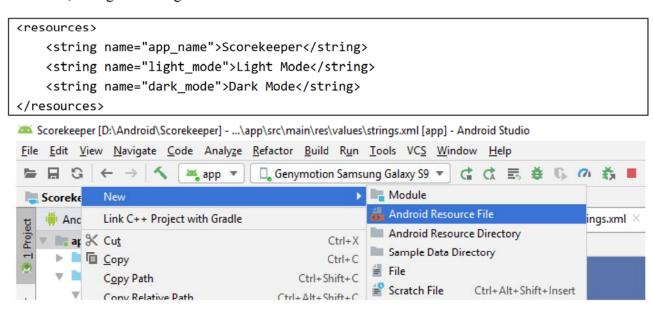


Điều chỉnh không hiển thị ActionBar cho activity, chỉnh style cho các nút tăng giảm

Áp dụng cho các nút bằng cách bỏ đi thuộc tính android:background thêm vào style="@style/btn_bg" và "@style/btn_bg2"

Bước 6: Tạo menu các chế độ hiển thị

Thêm nội dung cho strings.xml

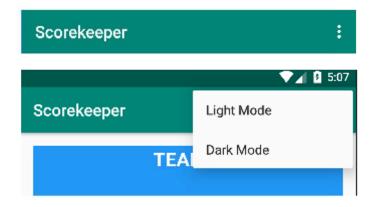




Tại MainActivity nhấn Ctrl+O để tạo phương thức overide onCreateOptionsMenu trong phân mục android.app.Activity

```
@Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.main_menu, menu);
        return super.onCreateOptionsMenu(menu);
}
```

Lưu ý: Chỉnh lại style của AppTheme hiển thị ActionBar



Tại MainActivity nhấn Ctrl+O để tạo phương thức overide onOptionsItemSelected

```
public boolean onOptionsItemSelected(MenuItem item) {
    if(item.getItemId()==R.id.dark_mode){
        ImageButton btnUp = (ImageButton)findViewById(R.id.btnUp);
        btnUp.setBackgroundResource(R.drawable.btn_bg2);
        ImageButton btnDown = (ImageButton)findViewById(R.id.btnDown);
```

```
btnDown.setBackgroundResource(R.drawable.btn_bg2);
    ImageButton btnUp2 = (ImageButton)findViewById(R.id.btnUp2);
    btnUp2.setBackgroundResource(R.drawable.btn_bg);
    ImageButton btnDown2 = (ImageButton)findViewById(R.id.btnDown2);
    btnDown2.setBackgroundResource(R.drawable.btn_bg);
}
else
{
    ImageButton btnUp = (ImageButton)findViewById(R.id.btnUp);
    btnUp.setBackgroundResource(R.drawable.btn_bg);
    ImageButton btnDown = (ImageButton)findViewById(R.id.btnDown);
    btnDown.setBackgroundResource(R.drawable.btn_bg);
    ImageButton btnUp2 = (ImageButton)findViewById(R.id.btnUp2);
    btnUp2.setBackgroundResource(R.drawable.btn_bg2);
    ImageButton btnDown2 = (ImageButton)findViewById(R.id.btnDown2);
    btnDown2.setBackgroundResource(R.drawable.btn_bg2);
}
//recreate();
return true;
```