VIT-AP UNIVERSITY, ANDHRA PRADESH

Lab Sheet 8: Switch and Toggle Buttons

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1.Design an app for home automation system. When ever the switch is on , change the color to green.



Code:

MainActivity.java:

```
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import com.google.android.material.tabs.TabLayout;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        getSupportActionBar().hide();
        TabLayout tll=findViewById(R.id.tablayout);
    }
}
```

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">
        <com.google.android.material.tabs.TabLayout
        android:id="@+id/tablayout"</pre>
```

```
android:layout width="match_parent
<com.google.android.material.tabs.TabItem</pre>
    android:scaleType="center"
```

```
android:layout width="wrap_content"
android:outlineSpotShadowColor="@color/purple 500"
```

```
android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:text="Home Theatre"
    android:textSize="15dp"
    android:textStyle="bold"
    android:layout_marginTop="85dp"
    android:layout_marginStart="20dp"/>
    <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="JBL, Surround"
    android:textSize="12dp"
    android:layout_marginTop="105dp"
    android:layout_marginStart="20dp"/>
    </androidx.cardview.widget.CardView>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Output:











2. Design an App for a Home Automation using Toggle button.



Code:

MainActivity.java:

```
MainActivity.java:
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
   int flag=0;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main);
      Button bl=findViewById(R.id.button2);
      bl.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
        if(flag==0) {
            bl.setText("All ON ");
            flag=1;
        }
        else {
            bl.setText("All OFF");
            flag=0;
        }
    }
    });
}
```

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">
    <TableLayout
        android:layout_width="200dp"
        android:layout_height="221dp"
        app:layout_constraintBottom_toBottomOf="parent"</pre>
```

```
</TableRow>
</TableRow>
</TableRow>
```

```
</TableRow>
    </TableRow>
    </TableRow>
</TableLayout>
```

Output:



