**Experiment 5**

**Student Name: Rahul Kumar UID: 20BCS7081**

**Branch: CSE Section/Group: 716/B**

**Semester: 6th Date of Performance: 29 March 2023**

**Subject Name: MAD Lab**

1. **Aim:**

Create App using The CheckBox

1. **Objective:**
2. To know About the App widgets and how to use them.
3. Learn to scroll and drag in Andros studio.
4. how to code for app widgets.
5. Use of checkbox
6. **Script and Output:**
7. **Xml Code**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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">  
  
 <TextView  
 android:id="@+id/textHello"  
 android:layout\_width="163dp"  
 android:layout\_height="104dp"  
 android:text="check Box is clicked"  
 android:paddingTop="20dp"  
 android:textAlignment="center"  
 android:layout\_centerInParent="true"  
 android:textSize="30dp"  
 android:textStyle="bold"  
 />  
  
 <CheckBox  
 android:id="@+id/checkBox\_visibility"  
 android:layout\_width="121dp"  
 android:layout\_height="wrap\_content"  
 android:text="Show text"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:layout\_editor\_absoluteY="191dp"  
 android:checked="false"/>  
  
</RelativeLayout>

1. **Java Code**

package com.example.xperiment5;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.CheckBox;  
import android.widget.CompoundButton;  
import android.widget.RadioGroup;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
  
 private CheckBox checkBoxVisibility;  
 private TextView txt;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 checkBoxVisibility = findViewById(R.id.*checkBox\_visibility*);  
 boolean isChecked=checkBoxVisibility.isChecked();  
 txt=findViewById(R.id.*textHello*);  
 updateTextVisibilty(isChecked);  
 checkBoxVisibility.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener(){  
 @Override  
 public void onCheckedChanged(CompoundButton buttonView,boolean isChecked)  
 {  
 updateTextVisibilty(buttonView.isChecked());  
 }  
 });  
 }  
  
 private void updateTextVisibilty(boolean isChecked) {  
 if(isChecked){  
 txt.setVisibility(View.*VISIBLE*);  
 }else{  
 txt.setVisibility(View.*INVISIBLE*);  
 }  
 }  
}

**Output :-**



