Slip no – 19

Q1. Create an Android Application that on/off the bulb using Toggle Button.

activity\_main.xml

<?*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"  
 *tools:context*=".MainActivity">  
  
 <ToggleButton  
 *android:id*="@+id/toggle\_button"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_marginLeft*="450px"  
 />  
</LinearLayout>

MainActivity.java

*package* com.example.slipno5;  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Toast;  
*import* android.widget.ToggleButton;  
  
*public class* MainActivity *extends* AppCompatActivity {  
 ToggleButton toggleButton;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 toggleButton=(ToggleButton)findViewById(R.id.*toggle\_button*);  
 toggleButton.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View view) {  
 *if*(((ToggleButton)view).isChecked()){  
 Toast.*makeText*(MainActivity.*this*, "Bulb is on", Toast.***LENGTH\_SHORT***).show();  
 }*else* {  
 Toast.*makeText*(MainActivity.*this*, "Bilb is off", Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
 });  
 }  
}

Q2. Design Following Screens using Table Layout. Display the entered text on next activity.

* Open your AndroidManifest.xml file and add the ResultActivity declaration within code.

<application

<!-- Other application configurations -->

<activity android:name=".ResultActivity"/>

</application>

activity\_main.xml

<?*xml version*="1.0" *encoding*="utf-8"?>  
<LinearLayout  
 *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:orientation*="vertical">  
  
 <TextView  
 *android:id*="@+id/textView"  
 *android:layout\_width*="fill\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_gravity*="center"  
 *android:layout\_marginLeft*="200px"  
 *android:layout\_marginTop*="100px"  
 *android:text*="Membership Form"  
 *android:textColor*="#C400E6"  
 *android:textSize*="20dp"  
 />  
  
 <EditText  
 *android:id*="@+id/editTextText"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:ems*="10"  
 *android:hint*="Full Name"  
 *android:inputType*="text"  
 *android:layout\_marginLeft*="40px"  
 *android:layout\_marginRight*="40dp"  
 />  
  
 <RadioGroup  
 *android:id*="@+id/genderRadioGroup"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:orientation*="horizontal"  
 *android:layout\_marginLeft*="40px"  
 *android:layout\_marginTop*="20px">  
  
 <TextView  
 *android:id*="@+id/textView2"  
 *android:layout\_width*="81dp"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Gender " />  
  
 <RadioButton  
 *android:id*="@+id/maleButton"  
 *android:layout\_width*="0dp"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_weight*="1"  
 *android:text*="Male" />  
  
 <RadioButton  
 *android:id*="@+id/femaleButton2"  
 *android:layout\_width*="0dp"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_weight*="1"  
 *android:text*="Female" />  
  
 <RadioButton  
 *android:id*="@+id/otherButton3"  
 *android:layout\_width*="0dp"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_weight*="1"  
 *android:text*="Other" />  
  
 </RadioGroup>  
 <LinearLayout  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:orientation*="horizontal"  
 *android:layout\_marginLeft*="40dp"  
 *android:layout\_marginRight*="40dp"  
 *android:layout\_marginTop*="20px">  
  
 <EditText  
 *android:id*="@+id/editTextText2"  
 *android:layout\_width*="0dp"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_weight*="1"  
 *android:ems*="10"  
 *android:hint*="Current Weight"  
 *android:inputType*="text" />  
  
 <EditText  
 *android:id*="@+id/editTextText3"  
 *android:layout\_width*="0dp"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_weight*="1"  
 *android:ems*="10"  
 *android:hint*="Height"  
 *android:inputType*="text" />  
 </LinearLayout>  
 <LinearLayout  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:orientation*="horizontal"  
 *android:layout\_marginLeft*="40dp"  
 *android:layout\_marginRight*="40dp"  
 *android:layout\_marginTop*="20px">  
 <EditText  
 *android:id*="@+id/editTextText4"  
 *android:layout\_width*="184dp"  
 *android:layout\_height*="wrap\_content"  
  
 *android:ems*="10"  
 *android:hint*="Gaol Weight"  
 *android:inputType*="text" />  
  
 <EditText  
 *android:id*="@+id/editTextText5"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:ems*="10"  
 *android:hint*="Age"  
 *android:inputType*="text" />  
 </LinearLayout>  
  
 <EditText  
 *android:id*="@+id/editTextText6"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:ems*="10"  
 *android:hint*="Phone"  
 *android:inputType*="text"  
 *android:layout\_marginLeft*="40px"  
 *android:layout\_marginRight*="40dp"  
 *android:layout\_marginTop*="20px"/>  
  
 <EditText  
 *android:id*="@+id/editTextText7"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:ems*="10"  
 *android:hint*="Address"  
 *android:inputType*="text"  
 *android:layout\_marginLeft*="40px"  
 *android:layout\_marginRight*="40dp"  
 *android:layout\_marginTop*="20px"/>  
  
 <CheckBox  
 *android:id*="@+id/checkBox"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="67dp"  
 *android:text*="I hava read, understood adn accepted membership rules"  
 *android:layout\_marginLeft*="40px"  
 *android:layout\_marginRight*="40px"  
 *android:layout\_marginTop*="20px"/>  
  
 <Button  
 *android:id*="@+id/button"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:layout\_marginLeft*="40dp"  
 *android:layout\_marginRight*="40dp"  
 *android:layout\_gravity*="center"  
 *android:text*="Button"  
 *android:layout\_marginTop*="20px"/>  
  
  
</LinearLayout>

MainActivity.java

*package* com.example.activitylifecycle;  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.CheckBox;  
*import* android.widget.EditText;  
*import* android.widget.RadioButton;  
*import* android.widget.RadioGroup;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* MainActivity *extends* AppCompatActivity {  
  
 *private* EditText fullNameEditText, currentWeightEditText, heightEditText,  
 goalWeightEditText, ageEditText, phoneEditText, addressEditText;  
 *private* RadioGroup genderRadioGroup;  
 *private* RadioButton selectedGenderRadioButton;  
 *private* CheckBox checkBox;  
 *private* Button submitButton;  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 fullNameEditText = findViewById(R.id.*editTextText*);  
 currentWeightEditText = findViewById(R.id.*editTextText2*);  
 heightEditText = findViewById(R.id.*editTextText3*);  
 goalWeightEditText = findViewById(R.id.*editTextText4*);  
 ageEditText = findViewById(R.id.*editTextText5*);  
 phoneEditText = findViewById(R.id.*editTextText6*);  
 addressEditText = findViewById(R.id.*editTextText7*);  
 genderRadioGroup = findViewById(R.id.*genderRadioGroup*);  
 checkBox = findViewById(R.id.*checkBox*);  
 submitButton = findViewById(R.id.*button*);  
  
 submitButton.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 *// Get selected gender  
 int* selectedGenderId = genderRadioGroup.getCheckedRadioButtonId();  
 selectedGenderRadioButton = findViewById(selectedGenderId);  
 String gender = selectedGenderRadioButton.getText().toString();  
  
 *// Get other input values* String fullName = fullNameEditText.getText().toString();  
 String currentWeight = currentWeightEditText.getText().toString();  
 String height = heightEditText.getText().toString();  
 String goalWeight = goalWeightEditText.getText().toString();  
 String age = ageEditText.getText().toString();  
 String phone = phoneEditText.getText().toString();  
 String address = addressEditText.getText().toString();  
 *boolean* agreedToRules = checkBox.isChecked();  
  
 *// Start the next activity and pass data to it* Intent intent = *new* Intent(MainActivity.*this*, ResultActivity.*class*);  
 intent.putExtra("FULL\_NAME", fullName);  
 intent.putExtra("GENDER", gender);  
 intent.putExtra("CURRENT\_WEIGHT", currentWeight);  
 intent.putExtra("HEIGHT", height);  
 intent.putExtra("GOAL\_WEIGHT", goalWeight);  
 intent.putExtra("AGE", age);  
 intent.putExtra("PHONE", phone);  
 intent.putExtra("ADDRESS", address);  
 intent.putExtra("AGREED\_TO\_RULES", agreedToRules);  
 startActivity(intent);  
 }  
 });  
 }  
}

ResultActivity.java

*package* com.example.activitylifecycle;  
  
*import* android.content.Intent;  
*import* android.os.Bundle;  
*import* android.widget.TextView;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*public class* ResultActivity *extends* AppCompatActivity {  
  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_result*);  
  
 *// Retrieve data passed from MainActivity* Intent intent = getIntent();  
 String fullName = intent.getStringExtra("FULL\_NAME");  
 String gender = intent.getStringExtra("GENDER");  
 String currentWeight = intent.getStringExtra("CURRENT\_WEIGHT");  
 String height = intent.getStringExtra("HEIGHT");  
 String goalWeight = intent.getStringExtra("GOAL\_WEIGHT");  
 String age = intent.getStringExtra("AGE");  
 String phone = intent.getStringExtra("PHONE");  
 String address = intent.getStringExtra("ADDRESS");  
 *boolean* agreedToRules = intent.getBooleanExtra("AGREED\_TO\_RULES", *false*);  
  
 *// Display data in TextViews* TextView fullNameTextView = findViewById(R.id.*fullNameTextView*);  
 TextView genderTextView = findViewById(R.id.*genderTextView*);  
 TextView currentWeightTextView = findViewById(R.id.*currentWeightTextView*);  
 TextView heightTextView = findViewById(R.id.*heightTextView*);  
 TextView goalWeightTextView = findViewById(R.id.*goalWeightTextView*);  
 TextView ageTextView = findViewById(R.id.*ageTextView*);  
 TextView phoneTextView = findViewById(R.id.*phoneTextView*);  
 TextView addressTextView = findViewById(R.id.*addressTextView*);  
  
 fullNameTextView.setText("Full Name: " + fullName);  
 genderTextView.setText("Gender: " + gender);  
 currentWeightTextView.setText("Current Weight: " + currentWeight);  
 heightTextView.setText("Height: " + height);  
 goalWeightTextView.setText("Goal Weight: " + goalWeight);  
 ageTextView.setText("Age: " + age);  
 phoneTextView.setText("Phone: " + phone);  
 addressTextView.setText("Address: " + address);  
 }  
}

activity\_result.xml

<?*xml version*="1.0" *encoding*="utf-8"?>  
<LinearLayout  
 *xmlns:android*="http://schemas.android.com/apk/res/android"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="match\_parent"  
 *android:orientation*="vertical"  
 *android:padding*="16dp">  
   
 <TextView  
 *android:id*="@+id/fullNameTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Full Name: " />  
   
 <TextView  
 *android:id*="@+id/genderTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Gender: " />  
   
 <TextView  
 *android:id*="@+id/currentWeightTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Current Weight: " />  
   
 <TextView  
 *android:id*="@+id/heightTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Height: " />  
   
 <TextView  
 *android:id*="@+id/goalWeightTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Goal Weight: " />  
   
 <TextView  
 *android:id*="@+id/ageTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Age: " />  
   
 <TextView  
 *android:id*="@+id/phoneTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Phone: " />  
   
 <TextView  
 *android:id*="@+id/addressTextView"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Address: " />  
  
</LinearLayout>