**8. Create an application that uses the basic views of Android.**

activity\_main.xml::

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:orientation="vertical" >

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Hello Readers!!" />

<Button

android:id="@+id/buttonExample"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Example Button" />

<CheckBox

android:id="@+id/checkBoxExample"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="CheckBox Example" />

<ToggleButton

android:id="@+id/toggleButtonExample"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="ToggleButton Example" />

<RadioGroup

android:id="@+id/radioGroupExample"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" >

<RadioButton

android:id="@+id/radioBtton1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:checked="true"

android:text="RadioButton 1" />

<RadioButton

android:id="@+id/radioButton2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="RadioButton 2" />

<RadioButton

android:id="@+id/radioButton3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="RadioButton 3" />

</RadioGroup>

<ImageButton

android:id="@+id/imageButtonExample"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:src="@drawable/image" />

<LinearLayout>

MainActivity.java::

package com.example.lab8;

import android.app.Activity;

import android.os.Bundle;

import android.view.Menu;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.ImageButton;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.RadioGroup.OnCheckedChangeListener;

import android.widget.Toast;

import android.widget.ToggleButton;

public class MainActivity extends Activity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button example = (Button) findViewById(R.id.buttonExample);

CheckBox exampleCheckBox = (CheckBox) findViewById(R.id.checkBoxExample);

RadioGroup exampleRadioGroup = (RadioGroup) findViewById(R.id.radioGroupExample);

ToggleButton exampletoggleButton = (ToggleButton) findViewById(R.id.toggleButtonExample);

ImageButton exampleImageButton = (ImageButton) findViewById(R.id.imageButtonExample);

example.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View arg0) {

// TODO Auto-generated method stub

// Toast.makeText(this, "Hey Button is pressed !!",

// Toast.LENGTH\_SHORT).show();

ToastToDisplay("Hey Button is pressed!!");

}

});

exampleCheckBox.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

if (((CheckBox) v).isChecked()) {

ToastToDisplay("Check Box is checked");

} else {

ToastToDisplay("Check box is unchecked");

}

}

});

exampleRadioGroup

.setOnCheckedChangeListener(new OnCheckedChangeListener() {

@Override

public void onCheckedChanged(RadioGroup group, int checkedId) {

// TODO Auto-generated method stub

RadioButton rb1 = (RadioButton) findViewById(R.id.radioBtton1);

RadioButton rb2 = (RadioButton) findViewById(R.id.radioButton2);

if (rb1.isChecked()) {

ToastToDisplay("Radio Button 1 is checked");

} else if (rb2.isChecked()) {

ToastToDisplay("Radio Button 2 is checked");

} else {

ToastToDisplay("Radio Button 3 is checked");

}

}

});

exampletoggleButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

if (((ToggleButton) v).isChecked()) {

ToastToDisplay("Toggle button is ON");

} else {

ToastToDisplay("Toggle Button is OFF");

}

}

});

exampleImageButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// TODO Auto-generated method stub

ToastToDisplay("Image Button is pressed");

}

});

}

private void ToastToDisplay(String args) {

Toast.makeText(getBaseContext(), args, Toast.LENGTH\_SHORT).show();

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

//getMenuInflater().inflate(R.menu.main, menu);

return true;

}

}