Lab Exercise

PART A

1. Develop Android App to Demonstrate Button Event with Toast Message. activity_main.xml **LinearLayout** xmlns:android="http://schemas.android.com/apk/res/android" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" android:paddingLeft="@dimen/activity_horizontal_margin" android:paddingRight="@dimen/activity_horizontal_margin" android:paddingTop="@dimen/activity_vertical_margin" android:orientation="vertical" android:paddingBottom="@dimen/activity_vertical_margin" tools:context=".MainActivity"> <TextView android:text="Welcome to Android Lab" android:textSize="20dp" android:gravity="center" android:textStyle="bold" android:paddingBottom="20dp" android:layout_width="match_parent" android:layout_height="wrap_content"/> <Button android:id="@+id/btn1" android:text="Submit" android:layout_width="match_parent" android:layout_height="wrap_content"/> </LinearLayout>

MainActivity.java

```
package com.example.ram.myapplication1;
import android.support.v7.app.ActionBarActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
public class MainActivity extends ActionBarActivity implements View.OnClickListener {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
Button b1=(Button)findViewById(R.id.btn1);
b1.setOnClickListener(this);
@Override
public void onClick(View v) {
Toast.makeText(MainActivity.this,"Welcome to Android
Lab",Toast.LENGTH_LONG).show();
}
```



2. Develop Android App to Demonstrate to change Background theme and display logo.

activity_image.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
android:layout_height="match_parent"
android:paddingLeft="@dimen/activity_horizontal_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
android:paddingBottom="@dimen/activity_vertical_margin"
android:orientation="vertical"
android:background="@drawable/bgtheme"
tools:context="com.example.ram.myapplication1.ImageActivity">
```

```
<TextView
android:text="Display Logo"
android:gravity="center"
```

```
android:textSize="20dp"
android:textStyle="bold"
android:paddingBottom="15dp"
android:layout_width="match_parent"
android:layout_height="wrap_content" />
<ImageView
android:src="@drawable/nie"
android:layout_gravity="center"
android:layout_width="match_parent"
android:layout_height="wrap_content" />
</LinearLayout>
```



3. Develop Android App to Demonstrate Spinner.

activity_spinner.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
android:layout_height="match_parent"
android:paddingLeft="@dimen/activity horizontal margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity vertical margin"
android:paddingBottom="@dimen/activity_vertical_margin"
tools:context="com.example.ram.myapplication1.SpinnerActivity">
<Spinner
android:id="@+id/spinner1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_centerHorizontal="true"
android:layout_marginTop="83dp" />
</RelativeLayout>
SpinnerActivity.java
package com.example.ram.myapplication1;
import android.support.v7.app.ActionBarActivity;
import android.os.Bundle;
import android.view.Menu;
```

import android.view.MenuItem;

```
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;
public class SpinnerActivity extends ActionBarActivity implements
AdapterView.OnItemSelectedListener {
String[] country = { "India", "USA", "China", "Japan", "Other",};
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_spinner);
Spinner spin = (Spinner) findViewById(R.id.spinner1);
spin.setOnItemSelectedListener(this);
ArrayAdapter aa = new
ArrayAdapter(this,android.R.layout.simple_spinner_item,country);
aa.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
spin.setAdapter(aa);
@Override
public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
Toast.makeText(getApplicationContext(),country[position],
Toast.LENGTH_LONG).show();
}
```



4. Develop Android App to Demonstrate Alert Dialog.

```
activity_main.xml
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
  android:layout_height="match_parent"
android:paddingLeft="@dimen/activity_horizontal_margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity_vertical_margin"
  android:paddingBottom="@dimen/activity_vertical_margin"
tools:context=".MainActivity">
  <TextView
    android:id="@+id/txtv1"
    android:gravity="center"
    android:textSize="20dp"
    android:text="AlertDialog Demo"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
  <Button
    android:id="@+id/btn1"
    android:layout_below="@+id/txtv1"
    android:text="Close App"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
</RelativeLayout>
```

MainActivity.java

```
package com.example.ram.myalertdemo;
import android.app.AlertDialog;
import android.app.Dialog;
import android.content.DialogInterface;
import android.support.v7.app.ActionBarActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
public class MainActivity extends ActionBarActivity implements View.OnClickListener {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Button b1=(Button)findViewById(R.id.btn1);
    b1.setOnClickListener(this);
  }
  @Override
  public void onClick(View v) {
    AlertDialog.Builder ab=new AlertDialog.Builder(this);
```

```
ab.setMessage("Do you Want to Close App");
    ab.setCancelable(false);
    ab.setPositiveButton("Yes", new DialogInterface.OnClickListener() {
       @Override
      public void onClick(DialogInterface dialog, int which) {
         finish();
      }
    });
    ab.setNegativeButton("No", new DialogInterface.OnClickListener() {
       @Override
      public void onClick(DialogInterface dialog, int which) {
         dialog.cancel();
      }
    });
    AlertDialog alert = ab.create();
    alert.setTitle("AlertDialogExample");
    alert.show();
  }
}
Output:
```



5. Develop Android App to Demonstrate AutoComplete TextView.

activity_main.xml

```
android:text="What_is_your_favourite_programming_language_" />
         < AutoCompleteTextView
           android:id="@+id/autoCompleteTextView1"
           android:layout_width="wrap_content"
           android:layout_height="wrap_content"
           android:layout_alignParentLeft="true"
           android:layout_below="@+id/textView1"
           android:layout_marginLeft="36dp"
           android:layout_marginTop="17dp"
           android:ems="10"
           android:text="">
           <requestFocus />
         </AutoCompleteTextView>
      </RelativeLayout>
MainActivity.java
package com.example.autocompletetextview;
import android.os.Bundle;
import android.app.Activity;
import android.graphics.Color;
import android.view.Menu;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;
public class MainActivity extends Activity {
  String[] language ={"C","C++","Java",".NET","iPhone","Android","ASP.NET","PH
  @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
```

P''};



