Department of Computer Science

Gujarat University

Certificate

Roll No: 13 *Seat No: 50002*

This is to certify that Mr./Ms. Antra koul student of MCA Semester – V has duly completed his/her term work for the semester ending in December 2020, in the subject of Wireless Communication and Mobile Technology towards partial fulfillment of his/her Degree of Masters in Computer Applications.

22-12-2020
Date of Submission

Internal Faculty

Head of Department

D E P A R T M E N T O F C O M P U T E R S C I E N C E
R O L L W A L A C O M P U T E R C E N T R E
G U J A R A T U N I V E R S I T Y
M.C.A. –5

R O L L NO : 13
N A M E : Antra koul
S U B J E C T : Wireless Communication and Mobile Technology

NO.	TITLE	PAGE NO.	DATE	SIGN
1	Design a layout with all gadgets and experiment with different types of orientation, color, graphics and preparation of views.	1	30-Sept-2020	
2	Create a dynamic view – button , radio button , toggle button and add properties dynamically.	9	3-Oct-2020	
3	Design a GUI to take input from user and display on another screen on the click of button.	16	11-Oct-2020	
4	Design a web view and display the url accepted from user in edit text.	22	20-Oct-2020	
5	Create a database in SQLLite browser , import and display in GUI.	26	24-Oct-2020	
6	**Develop Mobile application to design. Implement given database systems by accepting forms from the user. The forms should be effectively designed and the designing fields should be carefully chosen. The inputs should be stored in database and the user interface should have update store delete buttons to perform necessary actions. Design more than one screens and provide interaction through them. Marriage Registration**	33	2-Nov-2020	
7	**Student Registration**	46	8-Nov-2020	
8	**Hotel registration**	56	10-Nov-2020	
9	**Conference registration**	64	12-Nov-2020	
10	**Job registration**	72	15-Nov-2020	
11	Display contents of call log	81	21-Nov-2020	
12	Display content of contacts.	85	24-Nov-	

D E P A R T M E N T O F C O M P U T E R S C I E N C E
R O L L W A L A C O M P U T E R C E N T R E
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R O L L NO : 13
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			2020	
13	Extract date and time through user provided input and display.	**89**	**30-Nov-2020**	

Question1: Design a layout with all gadgets and experiment with different types of orientation, color, graphics and preparation of views.

"Activity file"

```
package student.com;


import android.app.Activity;
import android.os.Bundle;


public class StudentFormActivity extends Activity {
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
    }
}
```

"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content" android:background="@color/layout_color">
    <LinearLayout
        android:orientation="vertical"
       android:layout_width="match_parent"
       android:background="@color/layout_color"
       android:focusableInTouchMode="true"
       android:keepScreenOn="true"
       android:scrollbarAlwaysDrawVerticalTrack="true"
       android:scrollbars="vertical"
       android:layout_height="wrap_content"
       android:weightSum="1">
    <TextView
        android:layout_height="wrap_content"
        android:text="@string/hello"
        android:layout_marginLeft="100dp"
        android:layout_width="wrap_content"
        android:textColor="@color/font_color"
        android:editable="false" />
    <TextView
        android:id="@+id/textView1"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:text="Enter first name:"
        android:layout_marginTop="10dp">
    </TextView>
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:id="@+id/editText1"
```

```
        android:inputType="textPersonName"
        android:layout_marginTop="10dp">
    </EditText>
    <TextView
        android:id="@+id/textView6"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:text="Enter contact number:"
        android:layout_marginTop="10dp"
        android:contentDescription="Enter contact number:">
    </TextView>
    <EditText
        android:layout_width="match_parent"
        android:id="@+id/editText5"
        android:inputType="phone"
        android:layout_marginTop="10dp"
        android:layout_height="28dp" android:layout_weight="0.03">
    </EditText>
    <TextView
        android:id="@+id/textView2"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:text="Enter email:"
        android:contentDescription="Enter email"
        android:layout_marginTop="10dp">
    </TextView>
    <EditText
        android:layout_height="wrap_content"
```

```
        android:layout_width="match_parent"
        android:id="@+id/editText2"
        android:inputType="textEmailAddress"
        android:layout_marginTop="10dp">
</EditText>
<TextView
        android:id="@+id/textView3"
        android:layout_height="wrap_content"
        android:layout_width="wrap_content"
        android:text="Enter address"
        android:layout_marginTop="10dp"
        android:contentDescription="Enter address:"
        android:textColor="@color/font_color">
</TextView>
<EditText
        android:layout_width="match_parent"
        android:id="@+id/editText3"
        android:inputType="textPostalAddress"
        android:layout_marginTop="10dp"
        android:layout_height="26dp" android:layout_weight="0.06">
</EditText>
<TextView
        android:id="@+id/textView5"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:text="Gender:"
        android:layout_marginTop="10dp" >
</TextView>
<RadioButton
```

```
        android:text="Male"
        android:id="@+id/radioButton1"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">
</RadioButton>
<RadioButton
        android:text="Female"
        android:id="@+id/radioButton1"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">
</RadioButton>
<RadioButton
        android:text="Other"
        android:id="@+id/radioButton1"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">
</RadioButton>
<TextView
        android:id="@+id/textView5"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:text="Enter marks:"
        android:layout_marginTop="10dp" >
</TextView>
<EditText
         android:layout_height="wrap_content"
```

```
        android:layout_width="match_parent"
        android:id="@+id/editText4"
        android:inputType="number"
        android:layout_marginTop="10dp" >
</EditText>
<TextView
        android:id="@+id/textView5"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color"
        android:layout_width="wrap_content"
        android:text="Select stream:"
        android:layout_marginTop="10dp" >
</TextView>
<Spinner
        android:id="@+id/spinner1"
        android:layout_height="wrap_content"
        android:layout_width="match_parent"
        android:layout_marginTop="10dp"
        android:entries="@array/Stream">
</Spinner>
<TextView
        android:id="@+id/textView4"
        android:layout_height="wrap_content"
        android:text="Select hostel facilities:"
        android:layout_width="wrap_content"
        android:textColor="@color/font_color"
        android:layout_marginTop="10dp">
</TextView>
<CheckBox
        android:text="Mess"
```

```
        android:id="@+id/checkBox1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color">
</CheckBox>
<CheckBox
        android:text="Parking"
        android:id="@+id/checkBox1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color">
</CheckBox>
<CheckBox
        android:text="Gym"
        android:id="@+id/checkBox1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color">
</CheckBox>
<CheckBox
        android:text="Guest house"
        android:id="@+id/checkBox1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@color/font_color">
</CheckBox>
<Button
        android:text="Submit"
        android:id="@+id/button1"
        android:layout_width="wrap_content"
```

```
                android:layout_height="wrap_content">
        </Button>
        </LinearLayout>
</ScrollView>
```

"AndriodManifest.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="student.com"
    android:versionCode="1"
    android:versionName="1.0">
   <uses-sdk android:minSdkVersion="8" />

   <application android:icon="@drawable/icon" android:label="@string/app_name">
      <activity android:name=".StudentFormActivity"
            android:label="@string/app_name">
         <intent-filter>
            <action android:name="android.intent.action.MAIN" />
            <category android:name="android.intent.category.LAUNCHER" />
         </intent-filter>
      </activity>

   </application>
</manifest>
```

"Output"

Question2:Create a dynamic view – button , radio button , toggle button and add properties dynamically.

"Activity file"

```
package com.student;


import android.app.Activity;

import android.os.Bundle;

import android.widget.Button;

import android.widget.EditText;


public class StudentAdmissionActivity extends Activity {
```

```
    EditText editText;
    Button button;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
    }
}
```

“main.xml”

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
        android:id="@+id/scroll" android:layout_height="wrap_content"
        android:layout_width="match_parent">
        <LinearLayout android:layout_width="fill_parent"
                android:id="@+id/container" android:layout_height="fill_parent"
                android:orientation="vertical"
android:background="@color/layout_background">
                <TextView android:id="@+id/tvCourse"
android:text="@string/main_tv_course"
                        android:layout_marginRight="15dp"
android:layout_height="wrap_content"
                        android:layout_width="match_parent"
android:layout_marginLeft="20dp"
                        android:textColor="#FFFFFF" android:layout_marginTop="20dp"
                        android:textStyle="bold"></TextView>
```

```
                <EditText android:layout_marginRight="15dp"
                        android:layout_width="match_parent"
android:hint="@string/main_et_full_name"
                        android:layout_marginLeft="15dp"
android:id="@+id/etApplicantName"
                        android:layout_marginTop="20dp"
android:layout_height="match_parent"></EditText>
                <EditText android:layout_marginRight="15dp"
                        android:layout_height="wrap_content"
android:layout_width="match_parent"
                        android:hint="@string/main_et_father_name"
android:layout_marginLeft="15dp"
                        android:id="@+id/etFatherName"
android:layout_marginTop="20dp"></EditText>
                <EditText android:layout_marginRight="15dp"
                        android:layout_height="wrap_content"
android:layout_width="match_parent"
                        android:hint="@string/main_et_mother_name"
android:layout_marginLeft="15dp"
                        android:id="@+id/etMotherName"
android:layout_marginTop="20dp"></EditText>
                <TextView android:id="@+id/tvGender"
android:text="@string/main_tv_gender"
                        android:layout_marginRight="15dp"
android:layout_height="wrap_content"
                        android:layout_width="match_parent"
android:layout_marginLeft="20dp"
                        android:layout_marginTop="20dp" android:textColor="#FFFFFF"
                        android:textStyle="bold"></TextView>
                <RadioGroup android:layout_width="wrap_content"
```

```
                android:layout_marginLeft="15dp" android:id="@+id/rgGender"
                android:layout_height="wrap_content">
                <RadioButton android:id="@+id/rbMale"
                        android:layout_width="wrap_content" android:checked="true"
                        android:layout_height="wrap_content"
android:text="@string/main_rb_male"></RadioButton>
                <RadioButton android:id="@+id/rbFemale"
                        android:layout_width="wrap_content"
android:layout_height="wrap_content"
                        android:text="@string/main_rb_female"></RadioButton>
        </RadioGroup>
        <TextView android:id="@+id/tvNationality"
android:text="@string/main_tv_nationality"
                android:layout_marginRight="15dp"
android:layout_height="wrap_content"
                android:layout_width="match_parent"
android:layout_marginLeft="20dp"
                android:textColor="#FFFFFF" android:layout_marginTop="20dp"
                android:textStyle="bold"></TextView>
        <ToggleButton android:id="@+id/tgbNationality"
                android:layout_height="wrap_content"
android:layout_width="wrap_content"
                android:textOn="@string/main_tgb_on_text"
android:textOff="@string/main_tgb_off_text"
                android:layout_marginLeft="15dp"
android:layout_marginTop="15dp" />
        <EditText android:layout_marginRight="15dp"
                android:layout_height="wrap_content"
android:layout_width="match_parent"
```

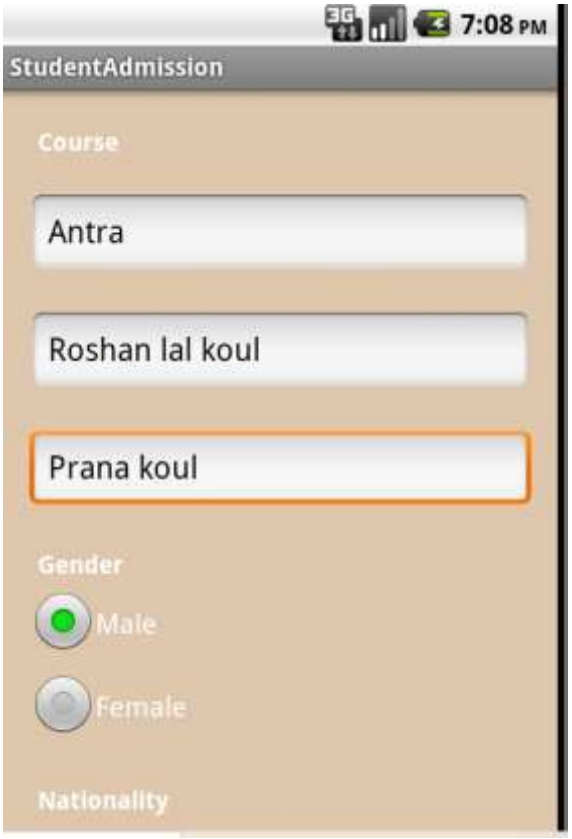
```
                android:hint="@string/main_et_phone"
android:layout_marginLeft="15dp"
                android:id="@+id/etPhone"
android:layout_marginTop="20dp"></EditText>
            <EditText android:layout_marginRight="15dp"
                android:layout_height="wrap_content"
android:layout_width="match_parent"
                android:hint="@string/main_et_email"
android:layout_marginLeft="15dp"
                android:id="@+id/etEmail"
android:layout_marginTop="20dp"></EditText>
            <EditText android:layout_marginRight="15dp"
                android:layout_height="wrap_content"
android:layout_width="match_parent"
                android:hint="@string/main_et_10th_percentage"
                android:layout_marginLeft="15dp"
android:id="@+id/et10Percentage"
                android:layout_marginTop="20dp"></EditText>
            <EditText android:layout_marginRight="15dp"
                android:layout_height="wrap_content"
android:layout_width="match_parent"
                android:hint="@string/main_et_12th_percentage"
                android:layout_marginLeft="15dp"
android:id="@+id/et12Percentage"
                android:layout_marginTop="20dp"></EditText>
            <EditText android:layout_marginRight="15dp"
                android:layout_height="wrap_content"
android:layout_width="match_parent"
                android:hint="@string/main_et_bachelor_percentage"
```

```
                android:layout_marginLeft="15dp"
android:id="@+id/etBachelorPercentage"
                android:layout_marginTop="20dp"></EditText>
                <Spinner android:id="@+id/spCourse"
                android:layout_marginRight="15dp"
android:layout_marginLeft="15dp"
                android:layout_height="wrap_content"
android:layout_width="match_parent" />
            <Button android:layout_width="match_parent"
                android:layout_height="wrap_content" android:id="@+id/btnSubmit"
                android:layout_marginLeft="15dp"
android:layout_marginRight="15dp"
                android:layout_marginTop="20dp"
android:text="@string/main_btn_submit">
            </Button>
        </LinearLayout>
</ScrollView>
```

“string.xml”

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">StudentAdmission</string>
    <string name="hello">Hello World, StudentAdmissionActivity!</string>
    <string name="main_tv_course">Course</string>
    <string name="main_tv_nationality">Nationality</string>
    <string name="main_et_full_name">Full Name of Applicant</string>
    <string name="main_et_father_name">Father\'s Name</string>
    <string name="main_et_mother_name">Mother\'s Name</string>
    <string name="main_et_dob">Date Of Birth</string>
```

```
    <string name="main_tv_gender">Gender</string>
    <string name="main_rb_male">Male</string>
    <string name="main_rb_female">Female</string>
    <string name="main_et_phone">Phone</string>
    <string name="main_et_email">Email</string>
    <string name="main_et_10th_percentage">10th Percentage</string>
    <string name="main_et_12th_percentage">12th Percentage</string>
    <string name="main_et_bachelor_percentage">Bachelor\'s Percentage</string>
    <string name="main_btn_submit">Submit</string>
    <string name="main_tgb_off_text">Indian</string>
    <string name="main_tgb_on_text">NRI</string>
    <string-array name="courseItems">
        <item>M.C.A</item>
        <item>M.Sc(AI&amp;amp;ML)</item>
        <item>M.Tech(WT)</item>
        <item>M.Tech(NS)</item>
    </string-array>
    <color name="layout_background">#dbc6ad</color>

</resources>
```



Question3:Design a GUI to take input from user and display on another screen on the click of button.

"Activity file"

```
package practice.com;


import android.app.Activity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;
```

```
import android.widget.Button;

import android.widget.EditText;


public class PracticeActivity extends Activity {

    /** Called when the activity is first created. */

    @Override

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.main);


        final EditText e1 = (EditText)findViewById(R.id.editText1);

        String e1_text = e1.getText().toString();


        final Button b1=(Button)findViewById(R.id.button1);

        b1.setOnClickListener(new View.OnClickListener() {


                        public void onClick(View v) {

                                Intent i = new Intent(getApplicationContext(),second.class);

                                i.putExtra("name", e1.getText().toString());
```

```
                startActivity(i);
            }
        });


    }
}
```

"second.java"

```
package practice.com;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class second extends Activity {
```

```
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.second);

        //Getting text from other activity and displaying it in TextView
        TextView t1 =(TextView)findViewById(R.id.textView1);
        Intent intent = getIntent();
        String s=intent.getStringExtra("name");
        t1.setText("Hello"+s);

        //Going to other activity on click button
        final Button b1=(Button)findViewById(R.id.button1);
        b1.setOnClickListener(new View.OnClickListener() {

                        public void onClick(View v) {

                                Intent i = new
Intent(getApplicationContext(),PracticeActivity.class);
```

```
                startActivity(i);

            }

        });

    }

}
```

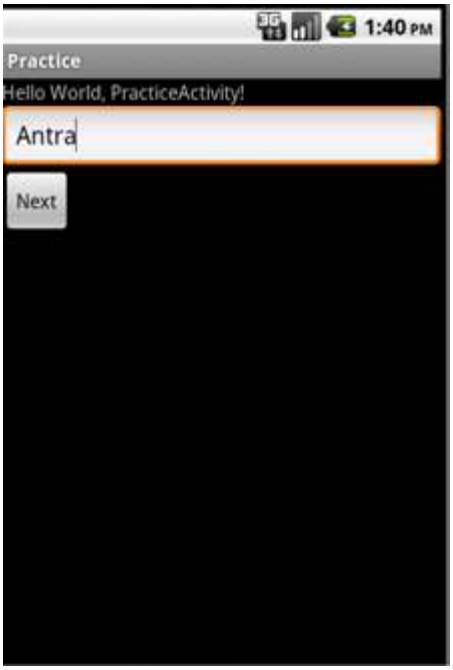
"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    >
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/hello"
    />
<EditText android:layout_width="match_parent" android:layout_height="wrap_content"
android:id="@+id/editText1">
    <requestFocus></requestFocus>
</EditText>
<Button android:layout_width="wrap_content" android:id="@+id/button1"
android:layout_height="wrap_content" android:text="Next"></Button>
</LinearLayout>
```

"second.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:orientation="vertical"
  android:layout_width="match_parent"
  android:layout_height="match_parent" android:weightSum="1">
    <TextView android:text="TextView" android:layout_height="wrap_content"
android:id="@+id/textView1" android:layout_width="128dp"
android:layout_weight="0.05"></TextView>
    <Button android:text="Previous" android:id="@+id/button1"
android:layout_width="wrap_content" android:layout_height="wrap_content"></Button>

</LinearLayout>
```

"Output"



Question4:Design a web view and display the url accepted from user in edit text.

"Activityfile"

```
package com.url;


import com.url.R;


import android.app.Activity;

import android.os.Bundle;

import android.view.View;
```

```
import android.webkit.WebView;

import android.widget.Button;

import android.widget.EditText;

import android.widget.LinearLayout;


public class Que4Activity extends Activity {

    /** Called when the activity is first created. */

          EditText editText;

    Button button;

    @Override

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.main);


            editText = (EditText) findViewById(R.id.editText1);

            button = (Button) findViewById(R.id.button1);

            button.setOnClickListener(new View.OnClickListener() {


                                public void onClick(View v) {
```

```
                String urlString = editText.getText().toString();

                WebView webView = new
WebView(getApplicationContext());

                webView.loadUrl(urlString);

                LinearLayout linearLayout = (LinearLayout)
findViewById(R.id.linearLayout1);

                linearLayout.addView(webView);

            }

        });

    }

}
```

"main.xml"

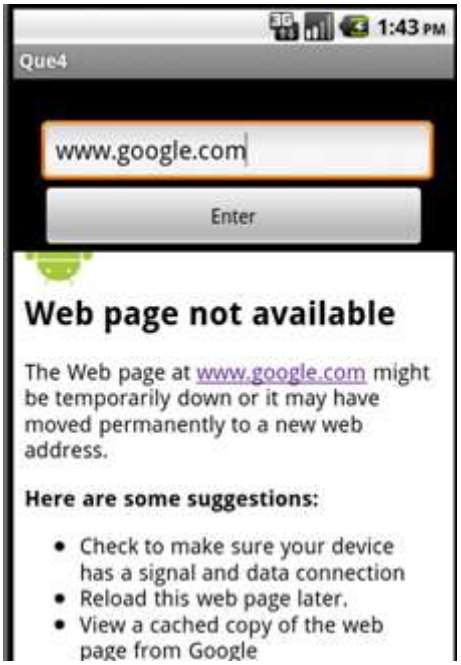
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout android:id="@+id/linearLayout1"
    android:layout_width="match_parent" android:layout_height="match_parent"
    android:weightSum="1" android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <EditText android:id="@+id/editText1" android:layout_height="wrap_content"
        android:layout_marginLeft="20dp" android:layout_marginRight="20dp"
        android:layout_marginTop="30dp" android:layout_width="285dp"
        android:text="enter the url" android:hint="Enter URL">
        <requestFocus></requestFocus>
```

```
        </EditText>
        <Button android:id="@+id/button1" android:layout_width="match_parent"
                android:layout_height="wrap_content" android:text="Enter"
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"></Button>
</LinearLayout>
```

"AndriodManifest"

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.url"
    android:versionCode="1"
    android:versionName="1.0">
        <uses-permission android:name="android.permission.INTERNET" />
   <uses-sdk android:minSdkVersion="8" />

   <application android:icon="@drawable/icon" android:label="@string/app_name">
      <activity android:name=".Que4Activity"
                android:label="@string/app_name">
          <intent-filter>
             <action android:name="android.intent.action.MAIN" />
             <category android:name="android.intent.category.LAUNCHER" />
          </intent-filter>
      </activity>

   </application>
</manifest>
```

"Output"



Question5 : Create a database in SQLLite browser , import and display in GUI.

"Activity file"

```
package com.databaseproject;
```

```
import android.app.Activity;
import android.content.ContentValues;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class DatabaseProjectActivity extends Activity {
    /** Called when the activity is first created. */
    Button button1, button2, button3;
    EditText editText1, editText2;
    SQLiteDatabase mDatabase;
    TextView textView1;

    @Override
```

```
public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        editText1 = (EditText) findViewById(R.id.editText1);
        editText2 = (EditText) findViewById(R.id.editText2);
        button1 = (Button) findViewById(R.id.button1);
        button2 = (Button) findViewById(R.id.button2);
        button3 = (Button) findViewById(R.id.button3);
        textView1 = (TextView) findViewById(R.id.textView1);

        mDatabase = openOrCreateDatabase("library.db",
                SQLiteDatabase.CREATE_IF_NECESSARY, null);
        final String DELETE_AUTHOR_TABLE = "DROP TABLE IF EXISTS
tbl_authors";
        final String CREATE_AUTHOR_TABLE = "CREATE TABLE tbl_authors ("
                + "id INTEGER PRIMARY KEY AUTOINCREMENT," +
"firstname TEXT,"
                + "lastname TEXT)";
        mDatabase.execSQL(DELETE_AUTHOR_TABLE);
        mDatabase.execSQL(CREATE_AUTHOR_TABLE);
```

```
        button1.setOnClickListener(new View.OnClickListener() {


                public void onClick(View v) {

                        ContentValues values = new ContentValues();

                        values.put("firstname", editText1.getText().toString());

                        values.put("lastname", editText2.getText().toString());

                        mDatabase.insert("tbl_authors", null, values);

                        refreshRecords();

                }

        });


        button2.setOnClickListener(new View.OnClickListener() {


                public void onClick(View v) {

                        ContentValues contentValues = new ContentValues();

                        contentValues.put("lastname",
editText2.getText().toString());

                        mDatabase.update("tbl_authors", contentValues,
"firstName=?",
```

```
                                        new String[] { editText1.getText().toString() });
                        refreshRecords();
                    }
                });

                button3.setOnClickListener(new View.OnClickListener() {
                    public void onClick(View v) {
                        mDatabase.delete("tbl_authors", "firstname=?",
                                        new String[] { editText1.getText().toString() });
                        refreshRecords();
                    }
                });
        }

        public void refreshRecords() {
                final String GET_AUTHOR_DETAILS = "SELECT firstname,lastname
FROM tbl_authors";
                Cursor cursor = mDatabase.rawQuery(GET_AUTHOR_DETAILS, null);
                String authorRecordsString="";
```

```
            if (cursor != null) {
                if (cursor.moveToFirst()) {
                    do {
                        authorRecordsString +=
cursor.getString(0)+"\t"+cursor.getString(1)+"\n";
                    } while (cursor.moveToNext());
                }
            }
            textView1.setText(authorRecordsString);

        }
}
```

"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <TextView android:layout_width="fill_parent"
        android:layout_height="wrap_content" android:id="@+id/textView1"/>
    <EditText android:layout_height="wrap_content" android:id="@+id/editText1"
        android:layout_width="match_parent" android:hint="First Name">
        <requestFocus></requestFocus>
    </EditText>
```

```
        <EditText android:layout_height="wrap_content" android:id="@+id/editText2"
                android:layout_width="match_parent" android:hint="Last
Name"></EditText>
        <Button android:text="Insert" android:id="@+id/button1"
                android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
        <Button android:text="Update" android:id="@+id/button2"
                android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
        <Button android:text="Delete" android:id="@+id/button3"
                android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
</LinearLayout>
```

“Output”

Question6: **Develop Mobile application to design. Implement given database systems by accepting forms from the user. The forms should be effectively designed and the designing fields should be carefully chosen. The inputs should be stored in database and the user interface should have update store delete buttons to perform necessary actions. Design more than one screens and provide interaction through them.**

"Marriage Registration"

```
package com.marraige;

import android.app.Activity;

import android.content.ContentValues;

import android.content.Context;

import android.content.Intent;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;
```

```
import android.widget.EditText;
import android.widget.Toast;

public class MarraigeRegistrationActivity extends Activity {
   /** Called when the activity is first created. */
   SQLiteDatabase my_database;
         @Override
   public void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.main);

      createDatabase();
      final Button add_record=(Button)findViewById(R.id.button1);
      add_record.setOnClickListener(new View.OnClickListener() {

                        public void onClick(View v) {
                              insertData();
                        }
                  });

      final Button delete_record=(Button)findViewById(R.id.button2);
      delete_record.setOnClickListener(new View.OnClickListener() {

                        public void onClick(View v) {
```

```
                    deleteData();


                }
            });

    final Button update_record=(Button)findViewById(R.id.button3);
    update_record.setOnClickListener(new View.OnClickListener() {

                public void onClick(View v) {
                    updateData();


                }
            });

    final Button display_record=(Button)findViewById(R.id.button4);
    display_record.setOnClickListener(new View.OnClickListener() {

                public void onClick(View v) {
                    Intent intent = new Intent(getApplicationContext(),display.class);
                    Toast.makeText(getApplicationContext(), "display pressed!",
100000).show();
                    startActivity(intent);
                }
            });
```

```
}
    public void createDatabase() {

    my_database=openOrCreateDatabase("MarraigeTable",Context.MODE_PRIVATE, null);
            my_database.execSQL("CREATE TABLE IF NOT EXISTS MARRIAGE(id INTEGER
PRIMARY KEY AUTOINCREMENT NOT NULL, bride VARCHAR,groom VARCHAR);");
            Toast.makeText(getApplicationContext(),"Table created
successfully!",10000).show();
    }
    public void insertData()
    {
            final EditText e1=(EditText)findViewById(R.id.editText2);
            String bride=e1.getText().toString();
            final EditText e2=(EditText)findViewById(R.id.editText3);
            String groom=e2.getText().toString();
            ContentValues record = new ContentValues();
            record.put("bride",bride);
            record.put("groom", groom);
            long id = my_database.insert("MARRIAGE", null, record);
            Toast.makeText(getApplicationContext(), id+"", 100000).show();
    }
    public void updateData()
    {
            final EditText e3=(EditText)findViewById(R.id.editText1);
```

```
                String id=e3.getText().toString();
                final EditText e1=(EditText)findViewById(R.id.editText2);
                String bride=e1.getText().toString();
                final EditText e2=(EditText)findViewById(R.id.editText3);
                String groom=e2.getText().toString();
                ContentValues record = new ContentValues();
                record.put("bride",bride);
                record.put("groom", groom);
                my_database.update("MARRIAGE", record, "id=?", new String[]{id});
                Toast.makeText(getApplicationContext(), "Record updated successfully!",
100000).show();
        }
        private void deleteData() {
                final EditText e1=(EditText)findViewById(R.id.editText1);
                String id=e1.getText().toString();
                my_database.delete("MARRIAGE", "id=?", new String[]{id});
                Toast.makeText(getApplicationContext(), "Record deleted!", 100000);
        }

}
```

“display.java”

```
package com.marraige;

import android.app.Activity;
```

```
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class display extends Activity {
   /** Called when the activity is first created. */
   SQLiteDatabase my_database;
         @Override
   public void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.second);

      createDatabase();
      display_records();

      final Button manipulate_records=(Button)findViewById(R.id.button1);
      manipulate_records.setOnClickListener(new View.OnClickListener() {
```

```
                public void onClick(View v) {

                        Intent intent = new
Intent(getApplicationContext(),MarraigeRegistrationActivity.class);

                        startActivity(intent);

                }

        });



  }

        public void createDatabase() {


        my_database=openOrCreateDatabase("MarraigeTable",Context.MODE_PRIVATE, null);

                my_database.execSQL("CREATE TABLE IF NOT EXISTS MARRIAGE(id INTEGER
PRIMARY KEY AUTOINCREMENT NOT NULL, bride VARCHAR,groom VARCHAR);");

                Toast.makeText(getApplicationContext(),"Table created
successfully!",10000).show();

        }


        public void display_records(){

                final TextView t = (TextView)findViewById(R.id.textView2);

    Cursor c = my_database.query("MARRIAGE", null, null, null, null, null, null);

    if(c != null){

        String record="";

        c.moveToFirst();

        do

        {
```

```
                record=record+c.getString(0)+"\t"+c.getString(1)+"\t"+c.getString(2)+"\n";
        }while(c.moveToNext());
        t.setText(record);
    }
        }

}
```

“main.xml”

```
package com.marraige;

import android.app.Activity;
import android.content.Context;
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class display extends Activity {
   /** Called when the activity is first created. */
   SQLiteDatabase my_database;
```

```
        @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.second);

        createDatabase();
        display_records();

        final Button manipulate_records=(Button)findViewById(R.id.button1);
        manipulate_records.setOnClickListener(new View.OnClickListener() {

                        public void onClick(View v) {
                                Intent intent = new
Intent(getApplicationContext(),MarraigeRegistrationActivity.class);
                                startActivity(intent);
                        }
                });


    }
        public void createDatabase() {

        my_database=openOrCreateDatabase("MarraigeTable",Context.MODE_PRIVATE, null);
                my_database.execSQL("CREATE TABLE IF NOT EXISTS MARRIAGE(id INTEGER
PRIMARY KEY AUTOINCREMENT NOT NULL, bride VARCHAR,groom VARCHAR);");
```

```
                Toast.makeText(getApplicationContext(),"Table created
successfully!",10000).show();
        }

        public void display_records(){
                final TextView t = (TextView)findViewById(R.id.textView2);
    Cursor c = my_database.query("MARRIAGE", null, null, null, null, null, null);
    if(c != null){
        String record="";
        c.moveToFirst();
        do
        {
                record=record+c.getString(0)+"\t"+c.getString(1)+"\t"+c.getString(2)+"\n";
        }while(c.moveToNext());
        t.setText(record);
    }
        }

}
```

“second.xml”

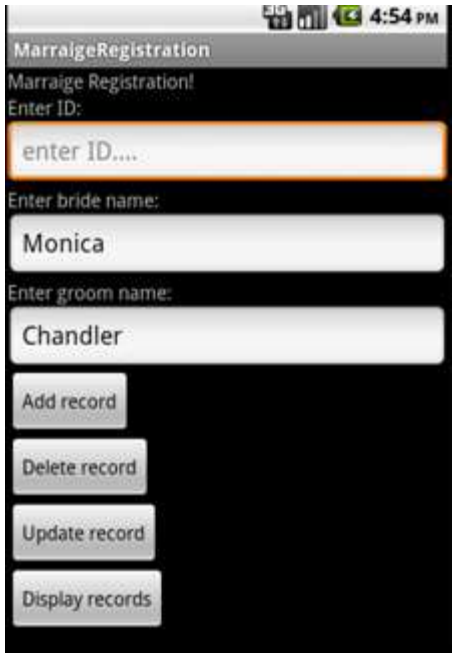
```
package com.marraige;

import android.app.Activity;
import android.content.Context;
```

```
import android.content.Intent;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class display extends Activity {
   /** Called when the activity is first created. */
   SQLiteDatabase my_database;
         @Override
   public void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.second);

      createDatabase();
      display_records();

      final Button manipulate_records=(Button)findViewById(R.id.button1);
      manipulate_records.setOnClickListener(new View.OnClickListener() {

                        public void onClick(View v) {
```

```
                                    Intent intent = new
Intent(getApplicationContext(),MarraigeRegistrationActivity.class);

                                    startActivity(intent);

                            }

                    });



  }

        public void createDatabase() {


        my_database=openOrCreateDatabase("MarraigeTable",Context.MODE_PRIVATE, null);

                my_database.execSQL("CREATE TABLE IF NOT EXISTS MARRIAGE(id INTEGER
PRIMARY KEY AUTOINCREMENT NOT NULL, bride VARCHAR,groom VARCHAR);");

                Toast.makeText(getApplicationContext(),"Table created
successfully!",10000).show();

        }


        public void display_records(){

                final TextView t = (TextView)findViewById(R.id.textView2);

     Cursor c = my_database.query("MARRIAGE", null, null, null, null, null, null);

     if(c != null){

        String record="";

        c.moveToFirst();

        do

        {

                record=record+c.getString(0)+"\t"+c.getString(1)+"\t"+c.getString(2)+"\n";
```

```
        }while(c.moveToNext());
        t.setText(record);
    }
        }

}
```

"Output:"



---

7. **Develop Mobile application to design. Implement given database systems by accepting forms from the user. The forms should be effectively designed and the designing fields should be carefully chosen. The inputs should be stored in database and the user interface should have update store delete buttons to perform necessary actions. Design more than one screens and provide interaction through them.**

Student Registration

"Activity file"

```
package com.que6;


import android.app.Activity;

import android.content.ContentValues;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

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.TextView;

public class ExamActivity extends Activity {
	/** Called when the activity is first created. */
	TextView result;
	Button add;
	Button dlt;
	Button modify;
	EditText sname;
	EditText std;
	CheckBox gujrati, hindi, english, marathi;
	RadioButton male, female;

	SQLiteDatabase mDatabase;
	String Language, Gender;

	@Override
	public void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.main);
        Language = "";
        Gender = "";

        gujrati = (CheckBox) findViewById(R.id.chkGujarati);
        hindi = (CheckBox) findViewById(R.id.chkHindi);
        english = (CheckBox) findViewById(R.id.chkenglish);
        marathi = (CheckBox) findViewById(R.id.chkMarathi);
        male = (RadioButton) findViewById(R.id.rdmale);
        female = (RadioButton) findViewById(R.id.rdfemale);

        final SQLiteDatabase mDatabase;
        mDatabase = openOrCreateDatabase("set4.db",
                        SQLiteDatabase.CREATE_IF_NECESSARY, null);
        mDatabase
                        .execSQL("create table if not exists student(Sname text,Std
text,language text,gender text);");

        add = (Button) findViewById(R.id.btnInsert);
        dlt = (Button) findViewById(R.id.btndlt);
        modify = (Button) findViewById(R.id.btnUpdate);
        result = (TextView) findViewById(R.id.tvdisplay);
        sname = (EditText) findViewById(R.id.edname);
        std = (EditText) findViewById(R.id.edstd);
```

```
gujrati.setOnClickListener(new View.OnClickListener() {

	public void onClick(View v) {
		// TODO Auto-generated method stub
		if (gujrati.isChecked() == true) {
			Language += gujrati.getText().toString() + " ";


		}
	}
});
hindi.setOnClickListener(new View.OnClickListener() {

	public void onClick(View v) {
		// TODO Auto-generated method stub
		if (hindi.isChecked() == true) {
			Language += hindi.getText().toString() + " ";
		}
	}
});
english.setOnClickListener(new View.OnClickListener() {

	public void onClick(View v) {
		// TODO Auto-generated method stub
```

```
                if (english.isChecked() == true) {
                        Language += english.getText().toString() + " ";
                }
        }
});
marathi.setOnClickListener(new View.OnClickListener() {

        public void onClick(View v) {
                // TODO Auto-generated method stub
                if (marathi.isChecked() == true) {
                        Language += marathi.getText().toString() + " ";
                }
        }
});
male.setOnClickListener(new View.OnClickListener() {

        public void onClick(View v) {
                // TODO Auto-generated method stub
                if (male.isChecked() == true) {
                        Gender = male.getText().toString();
                }
        }
});
female.setOnClickListener(new View.OnClickListener() {
```

```
        public void onClick(View v) {
                // TODO Auto-generated method stub
                if (female.isChecked() == true) {
                        Gender = female.getText().toString();
                }
        }
});

add.setOnClickListener(new View.OnClickListener() {

        public void onClick(View v) {
                // TODO Auto-generated method stub

                ContentValues values = new ContentValues();
                values.put("Sname", sname.getText().toString());
                values.put("Std", std.getText().toString());
                values.put("language", Language);
                values.put("gender", Gender);
                result.setText(sname.getText().toString() + " "
                                + std.getText().toString() + " " + Language + " "
                                + Gender);
                mDatabase.insert("student", null, values);
```

```
                    Language = "";
                    Gender = "";
                    gujrati.setChecked(false);
                    hindi.setChecked(false);
                    english.setChecked(false);
                    marathi.setChecked(false);
                    male.setChecked(false);
                    female.setChecked(false);
                    sname.setText("");
                    std.setText("");

                    final String get_details = "SELECT * FROM student";
                    Cursor cursor =mDatabase.rawQuery(get_details, null);
cursor.moveToFirst();

                    String student_data="";
                    if (cursor != null) {
                        if(cursor.moveToFirst()) {
                            do {
                                student_data += cursor.getString(0)+"\t"

+cursor.getString(1)+"\t"

+cursor.getString(2)+"\t"+

cursor.getString(3)+"\n";
```

```
                                        } while (cursor.moveToNext()); }

                                    }

                                    result.setText(student_data);



                                }

            });

      }

}
```

"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
      android:orientation="vertical"
android:layout_width="fill_parent"
      android:layout_height="fill_parent">
      <TextView android:layout_width="wrap_content"

      android:textAppearance="?android:attr/textAppearanceLarge"
android:id="@+id/lbl1"
            android:text="Registrartion Form"
android:layout_height="wrap_content"
            android:layout_gravity="center"
android:textSize="30sp">
      </TextView>
      <EditText android:layout_width="match_parent"
android:id="@+id/edname"
            android:layout_height="wrap_content"
android:inputType="textPersonName"
            android:hint="First Name">
            <requestFocus></requestFocus>
      </EditText>
      <EditText android:layout_width="match_parent"
android:id="@+id/edstd"
            android:layout_height="wrap_content"
android:inputType="textPersonName"
            android:hint="Enter Standard ">
            <requestFocus></requestFocus>
      </EditText>
```

```
     <TextView android:layout_width="wrap_content"

     android:textAppearance="?android:attr/textAppearanceLarge"
android:id="@+id/lbl2"
          android:text="Select Known Language :"
android:layout_height="wrap_content"
          android:textSize="23sp"></TextView>

     <LinearLayout android:layout_width="match_parent"
          android:id="@+id/linearLayout1"
android:layout_height="wrap_content"
          android:orientation="horizontal">
          <CheckBox android:text="Gujarati"
android:id="@+id/chkGujarati"
               android:layout_gravity="center"
android:layout_width="wrap_content"
               android:layout_height="wrap_content"
android:textSize="10sp"></CheckBox>
          <CheckBox android:text=" Hindi"
android:id="@+id/chkHindi"
               android:layout_gravity="center"
android:layout_width="wrap_content"
               android:layout_height="wrap_content"
android:textSize="10sp"></CheckBox>
     </LinearLayout>
     <LinearLayout android:layout_width="match_parent"
          android:id="@+id/linearLayout1"
android:layout_height="wrap_content"
          android:orientation="horizontal">
          <CheckBox android:text="English"
android:id="@+id/chkenglish"
               android:layout_gravity="center"
android:layout_width="wrap_content"
               android:layout_height="wrap_content"
android:textSize="10sp"></CheckBox>
          <CheckBox android:text="Marathi"
android:id="@+id/chkMarathi"
               android:layout_gravity="center"
android:layout_width="wrap_content"
               android:layout_height="wrap_content"
android:textSize="10sp"></CheckBox>
     </LinearLayout>
     <TextView android:layout_width="wrap_content"

     android:textAppearance="?android:attr/textAppearanceLarge"
android:id="@+id/lbl3"
```

```
          android:text="Select Gender :"
android:layout_height="wrap_content"
          android:textSize="23sp"></TextView>
     <LinearLayout android:layout_width="match_parent"
          android:id="@+id/linearLayout1"
android:layout_height="wrap_content"
          android:orientation="vertical">
          <RadioGroup android:layout_height="wrap_content"
               android:layout_width="wrap_content"
android:id="@+id/rdGroup">
               <RadioButton android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
android:text="Male" android:id="@+id/rdmale"></RadioButton>
               <RadioButton android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
android:text="Female"
                    android:id="@+id/rdfemale"></RadioButton>
          </RadioGroup>

     </LinearLayout>
     <TextView android:text=""
android:layout_height="wrap_content"
          android:layout_width="wrap_content"
android:id="@+id/tvdisplay"></TextView>

     <LinearLayout android:id="@+id/linearLayout2"
          android:layout_width="match_parent"
android:layout_height="wrap_content">
          <Button android:text="Insert"
android:id="@+id/btnInsert"
               android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
          <Button android:text="Update"
android:id="@+id/btnUpdate"
               android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
          <Button android:text="Delete" android:id="@+id/btndlt"
               android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
          <Button android:text="Display"
android:id="@+id/btndisplay"
               android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
     </LinearLayout>

</LinearLayout>
```

"Output"

Question8: Develop Mobile application to design. Implement given database systems by accepting forms from the user. The forms should be effectively designed and the designing fields should be carefully chosen. The inputs should be stored in database and the user interface should have update store delete buttons to perform necessary actions. Design more than one screens and provide interaction through them.

Hotel registration

"Activity file"

```
package exam2.com;


import android.app.Activity;

import android.content.Intent;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.view.View;
```

```
import android.widget.Button;

import android.widget.CheckBox;

import android.widget.EditText;


public class Exam2Activity extends Activity {

   /** Called when the activity is first created. */

   @Override

   public void onCreate(Bundle savedInstanceState) {

      super.onCreate(savedInstanceState);

      setContentView(R.layout.main);

      final EditText name=(EditText)findViewById(R.id.hotelname);

      final EditText address=(EditText)findViewById(R.id.hoteladdress);

      final EditText no=(EditText)findViewById(R.id.hotelcontactno);

      final EditText email=(EditText)findViewById(R.id.hotelemail);

      final EditText totaltooms=(EditText)findViewById(R.id.hotelrooms);

      final Button add=(Button) findViewById(R.id.hotelsignup);

      final Button update=(Button) findViewById(R.id.updatebtn);

      final Button delete=(Button) findViewById(R.id.deletebtn);

      final SQLiteDatabase db=openOrCreateDatabase("db6.db",
SQLiteDatabase.CREATE_IF_NECESSARY, null);

      db.execSQL("create table hotel_data(name Text, address Text, no Text, email Text, room
Text);");

      add.setOnClickListener(new View.OnClickListener() {

                        public void onClick(View v) {

                              String hname=name.getText().toString();
```

```
                String haddress=address.getText().toString();

                String hno=no.getText().toString();

                String hemail=email.getText().toString();

                String hroom=totaltooms.getText().toString();

                db.execSQL("insert into hotel_data(name,address,no,email,room)
values('"+hname+"','"+haddress+"','"+hno+"','"+hemail+"','"+hroom+"');");

            }

        });

    delete.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {

                db.execSQL("Delete from hotel_data where
name='"+name.getText().toString()+"';");

            }

        });

    update.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {

                Intent i=new Intent(getApplicationContext(),Updatedata.class);

                startActivity(i);

            }

        });

  }

}
```

“Updated.java”

```
package exam2.com;
```

```
import android.app.Activity;
import android.content.Intent;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;

public class Exam2Activity extends Activity {
   /** Called when the activity is first created. */
   @Override
   public void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.main);
      final EditText name=(EditText)findViewById(R.id.hotelname);
      final EditText address=(EditText)findViewById(R.id.hoteladdress);
      final EditText no=(EditText)findViewById(R.id.hotelcontactno);
      final EditText email=(EditText)findViewById(R.id.hotelemail);
      final EditText totaltooms=(EditText)findViewById(R.id.hotelrooms);
      final Button add=(Button) findViewById(R.id.hotelsignup);
      final Button update=(Button) findViewById(R.id.updatebtn);
      final Button delete=(Button) findViewById(R.id.deletebtn);
```

```
final SQLiteDatabase db=openOrCreateDatabase("db6.db",
SQLiteDatabase.CREATE_IF_NECESSARY, null);

db.execSQL("create table hotel_data(name Text, address Text, no Text, email Text, room
Text);");

add.setOnClickListener(new View.OnClickListener() {

                public void onClick(View v) {

                        String hname=name.getText().toString();

                        String haddress=address.getText().toString();

                        String hno=no.getText().toString();

                        String hemail=email.getText().toString();

                        String hroom=totaltooms.getText().toString();

                        db.execSQL("insert into hotel_data(name,address,no,email,room)
values('"+hname+"','"+haddress+"','"+hno+"','"+hemail+"','"+hroom+"');");

                }

        });

delete.setOnClickListener(new View.OnClickListener() {

                public void onClick(View v) {

                        db.execSQL("Delete from hotel_data where
name='"+name.getText().toString()+"';");

                }

        });

update.setOnClickListener(new View.OnClickListener() {

                public void onClick(View v) {

                        Intent i=new Intent(getApplicationContext(),Updatedata.class);

                        startActivity(i);

                }
```

```
            });

  }

}
```

"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    >
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Hotel Registration Form"
    />
<TextView android:text="Hotel Name" android:id="@+id/textView1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></TextView>
<EditText android:id="@+id/hotelname"
android:layout_width="match_parent"
android:layout_height="wrap_content">
    <requestFocus></requestFocus>
</EditText>
<TextView android:text="Hotel Address"
android:id="@+id/textView2" android:layout_width="wrap_content"
android:layout_height="wrap_content"></TextView>
<EditText android:id="@+id/hoteladdress"
android:layout_width="match_parent"
android:layout_height="wrap_content"></EditText>
<TextView android:text="Contact No" android:id="@+id/textView3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></TextView>
<EditText android:id="@+id/hotelcontactno"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="phone"></EditText>
<TextView android:text="Email Address"
android:id="@+id/textView4" android:layout_width="wrap_content"
android:layout_height="wrap_content"></TextView>
<EditText android:id="@+id/hotelemail"
android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
android:inputType="textEmailAddress"></EditText>
<TextView android:text="No of Rooms" android:id="@+id/textView5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></TextView>
<EditText android:id="@+id/hotelrooms"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="number"></EditText>
<Button android:text="Sign Up" android:id="@+id/hotelsignup"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
<Button android:text="Update" android:id="@+id/updatebtn"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
<Button android:text="Delete" android:id="@+id/deletebtn"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
</LinearLayout>
```

"update.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:orientation="vertical"
  android:layout_width="match_parent"
  android:layout_height="match_parent">
    <TextView android:text="Hotel Name"
android:id="@+id/textView1" android:layout_width="wrap_content"
android:layout_height="wrap_content"></TextView>
    <EditText android:id="@+id/name"
android:layout_width="match_parent"
android:layout_height="wrap_content">
        <requestFocus></requestFocus>
    </EditText>
    <TextView android:text="Email" android:id="@+id/textView2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></TextView>
    <EditText android:id="@+id/mail"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:inputType="textEmailAddress"></EditText>
```

```
    <Button android:text="Update" android:id="@+id/upbtn"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>

</LinearLayout>
```

"Output"

Question9: **Develop Mobile application to design. Implement given database systems by accepting forms from the user. The forms should be effectively designed and the designing fields should be carefully chosen. The inputs should be stored in database and the user interface should have update store delete buttons to perform necessary actions. Design more than one screens and provide interaction through them.**

Conference registration

"Activity file"

```
package com.que9;


import android.app.Activity;

import android.content.ContentValues;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;
```

```
public class ConferenceRegistrationActivity extends Activity {
    /** Called when the activity is first created. */

        Button button1, button2, button3;
        EditText editText1, editText2, editText3, editText4;
        SQLiteDatabase mDatabase;
        TextView textView1;

        @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);

        editText1 = (EditText) findViewById(R.id.editText1);
                editText2 = (EditText) findViewById(R.id.editText2);
                editText3 = (EditText) findViewById(R.id.editText3);
                editText4 = (EditText) findViewById(R.id.editText4);
```

```
        button1 = (Button) findViewById(R.id.button1);

        button2 = (Button) findViewById(R.id.button2);

        button3 = (Button) findViewById(R.id.button3);

        textView1 = (TextView) findViewById(R.id.textView1);


        mDatabase =
openOrCreateDatabase("CoferenceDB.db",SQLiteDatabase.CREATE_IF_NECESSAR
Y,null);


        final String DeleteRegTable = "DROP TABLE IF EXISTS regTable";

        final String CreateRegTable = "CREATE TABLE regTable ("

                + "id INTEGER PRIMARY KEY AUTOINCREMENT," +
"name TEXT,"

                + "email TEXT,"+"mobile NUMBER)";


        mDatabase.execSQL(DeleteRegTable);

        mDatabase.execSQL(CreateRegTable);


        //Insert Button

        button1.setOnClickListener(new View.OnClickListener() {
```

```
public void onClick(View v) {

        ContentValues values = new ContentValues();

        String num = editText1.getText().toString();

        int id = Integer.parseInt(num);

        values.put("id", id);


        values.put("name", editText2.getText().toString());


        values.put("email", editText3.getText().toString());


        String contact = editText4.getText().toString();

        long mobile = Long.parseLong(contact);

        values.put("mobile", mobile);


        mDatabase.insert("regTable", null, values);

        refreshRecords();


}
```

```
});

//Update Button
button2.setOnClickListener(new View.OnClickListener() {

        public void onClick(View v) {
                ContentValues values = new ContentValues();
                String num = editText1.getText().toString();
                int id = Integer.parseInt(num);
                values.put("id", id);

                values.put("name", editText2.getText().toString());

                values.put("email", editText3.getText().toString());

                String contact = editText4.getText().toString();
                long mobile = Long.parseLong(contact);
                values.put("mobile", mobile);
```

```
                    mDatabase.update("regTable", values, "id = ?", new String[]
{num});

                    refreshRecords();

                }

            });


            //Delete Button

            button3.setOnClickListener(new View.OnClickListener() {


                public void onClick(View v) {

                    String num = editText1.getText().toString();

                    mDatabase.delete("regTable", "id = ?", new String[] {num});

                    refreshRecords();

                }

            });


    }

        public void refreshRecords(){

            final String getRecords = "SELECT * FROM regTable ";
```

```
            Cursor c = mDatabase.rawQuery(getRecords, null);

            c.moveToFirst();

            Toast.makeText(getApplicationContext(), "Hola",
Toast.LENGTH_LONG).show();

            String rowResults = "";

            while(!c.isAfterLast()){

                  rowResults = rowResults.concat(c.getInt(0) + "||"+
c.getString(1)+"||"+c.getString(2)+"||"+c.getLong(3)+"\n");

                  Toast.makeText(getApplicationContext(), rowResults,
Toast.LENGTH_LONG).show();

                  c.moveToNext();

            }

            textView1.setText(rowResults);

      }

}
```

"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
     android:orientation="vertical"
android:layout_width="fill_parent"
     android:layout_height="fill_parent">
     <TextView android:layout_width="fill_parent"
          android:layout_height="wrap_content"
android:id="@+id/textView1" />
```

```
     <EditText android:id="@+id/editText1"
android:layout_width="match_parent"
          android:layout_height="wrap_content"
android:inputType="number"
          android:hint="ID"></EditText>

     <EditText android:layout_height="wrap_content"
android:id="@+id/editText2"
          android:layout_width="match_parent"
android:hint="Name">
          <requestFocus></requestFocus>
     </EditText>

     <EditText android:id="@+id/editText3"
android:layout_width="match_parent"
          android:layout_height="wrap_content"
android:inputType="textEmailAddress"
          android:hint="Email"></EditText>

     <EditText android:id="@+id/editText4"
android:layout_width="match_parent"
          android:layout_height="wrap_content"
android:inputType="phone"
          android:hint="Mobile"></EditText>

     <Button android:text="Insert" android:id="@+id/button1"
          android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>

     <Button android:text="Update" android:id="@+id/button2"
          android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>

     <Button android:text="Delete" android:id="@+id/button3"
          android:layout_width="wrap_content"
android:layout_height="wrap_content"></Button>
</LinearLayout>
```

"Output"

Question 10.: Develop Mobile application to design. Implement given database systems by accepting forms from the user. The forms should be effectively designed and the designing fields should be carefully chosen. The inputs should be stored in database and the user interface should have update store delete buttons to perform necessary actions. Design more than one screens and provide interaction through them.

Job registration

"Activity File"

```
package com.examproject;


import android.app.Activity;

import android.content.ContentValues;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;
```

```
import android.os.Bundle;

import android.view.View;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.DatePicker;

import android.widget.EditText;

import android.widget.Spinner;

import android.widget.TextView;


public class ExamProjectActivity extends Activity {

        /** Called when the activity is first created. */

        Spinner spinner;

        EditText etFirstName, etLastName, etPhoneNumber, etQualification,

                        etExperience;

        DatePicker dpDateOfBirth;

        Button button;

        SQLiteDatabase sqLiteDatabase;

        TextView textView1;
```

```
@Override
public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);

        sqLiteDatabase = openOrCreateDatabase("job_registration.db",
                        SQLiteDatabase.CREATE_IF_NECESSARY, null);
        final String DELETE_REGISTRATION_TABLE = "DROP TABLE IF
EXISTS tbl_registration";
        final String CREATE_REGISTRATION_TABLE = "CREATE TABLE
tbl_registration ("
                        + "position TEXT,"
                        + "firstname TEXT,"
                        + "lastname TEXT,"
                        + "dateofbirth TEXT,"
                        + "phone TEXT,"
                        + "qualification TEXT,"
                        + "experience INT)";
        sqLiteDatabase.execSQL(DELETE_REGISTRATION_TABLE);
        sqLiteDatabase.execSQL(CREATE_REGISTRATION_TABLE);
```

```
        textView1 = (TextView) findViewById(R.id.textView1);
        etFirstName = (EditText) findViewById(R.id.editText1);
        etLastName = (EditText) findViewById(R.id.editText2);
        etPhoneNumber = (EditText) findViewById(R.id.editText4);
        etQualification = (EditText) findViewById(R.id.editText5);
        etExperience = (EditText) findViewById(R.id.editText7);
        dpDateOfBirth = (DatePicker) findViewById(R.id.datePicker1);
        button = (Button) findViewById(R.id.button1);

        String[] positions = { "Software Developer", "Database Administrator",
                        "Business Analyst" };
        spinner = (Spinner) findViewById(R.id.spinner1);
        ArrayAdapter<String> arrayAdapter = new ArrayAdapter<String>(this,
                        android.R.layout.simple_spinner_item, positions);
        arrayAdapter
.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        spinner.setAdapter(arrayAdapter);
```

```
button.setOnClickListener(new View.OnClickListener() {


        public void onClick(View v) {
                ContentValues values = new ContentValues();
                values.put("position", spinner.getSelectedItem().toString());
                values.put("firstname", etFirstName.getText().toString());
                values.put("lastname", etLastName.getText().toString());
                values.put(
                                "dateofbirth",
                                dpDateOfBirth.getDayOfMonth() + "-"
                                                + dpDateOfBirth.getMonth() + "-"
                                                + dpDateOfBirth.getYear());
                values.put("phone", etPhoneNumber.getText().toString());
                values.put("qualification", etQualification.getText()
                                .toString());
                values.put("experience", etExperience.getText().toString());
                sqLiteDatabase.insert("tbl_registration", null, values);
                refreshRecords();
```

```
                }

            });

        }


        public void refreshRecords() {

            final String GET_REGISTRATION_DETAILS = "SELECT * FROM
tbl_registration";

            Cursor cursor =
sqLiteDatabase.rawQuery(GET_REGISTRATION_DETAILS, null);

            cursor.moveToFirst();

            String registrationRecordsString = "";

            if (cursor != null) {

                if (cursor.moveToFirst()) {

                    do {

                        registrationRecordsString += cursor.getString(0) + "\t"

                                + cursor.getString(0) + "\t" +
cursor.getString(1)


        +"\t"+cursor.getString(2)+"\t"+cursor.getString(3)
```

```
        +"\t"+cursor.getString(4)+"\t"+cursor.getString(5)

                                                +"\t"+cursor.getInt(6);

                        } while (cursor.moveToNext());

                }

            }

            textView1.setText(registrationRecordsString);



      }

}
```

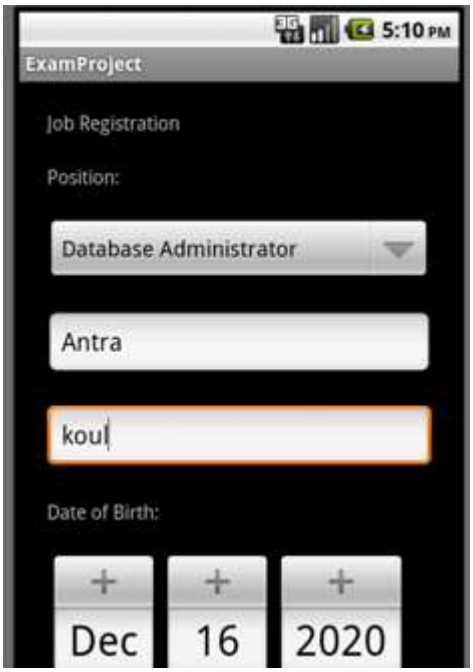
"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
xmlns:android="http://schemas.android.com/apk/res/android"
     android:orientation="vertical"
android:layout_width="fill_parent"
     android:layout_height="fill_parent">
     <LinearLayout android:id="@+id/linearLayout1"
          android:orientation="vertical"
android:layout_width="fill_parent"
          android:layout_height="fill_parent">
          <TextView android:layout_width="fill_parent"
android:id="@+id/textView1"
               android:layout_height="wrap_content"
android:text="@string/hello"
               android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
               android:layout_marginTop="20dp" />
          <TextView android:text="Position:"
               android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

```
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginTop="20dp"></TextView>
          <Spinner android:id="@+id/spinner1"
android:layout_height="wrap_content"
                android:layout_width="match_parent"
android:layout_marginLeft="20dp"
                android:layout_marginRight="20dp"
android:layout_marginTop="20dp"></Spinner>
          <EditText android:id="@+id/editText1"
android:layout_width="match_parent"
                android:layout_height="wrap_content"
android:hint="First Name"
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginTop="20dp">
          </EditText>
          <EditText android:id="@+id/editText2"
android:layout_width="match_parent"
                android:layout_height="wrap_content"
android:hint="Last Name"
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginTop="20dp"></EditText>
          <TextView android:text="Date of Birth:"
android:id="@+id/textView2"
                android:layout_width="wrap_content"
android:layout_height="wrap_content"
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginTop="20dp"></TextView>
          <DatePicker android:id="@+id/datePicker1"
                android:layout_width="wrap_content"
android:layout_height="wrap_content"
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginTop="20dp"></DatePicker>
          <EditText android:id="@+id/editText4"
android:layout_width="match_parent"
                android:layout_height="wrap_content"
android:inputType="phone"
                android:hint="Phone Number"
android:layout_marginLeft="20dp"
                android:layout_marginRight="20dp"
android:layout_marginTop="20dp"></EditText>
          <EditText android:id="@+id/editText5"
android:layout_width="match_parent"
```

```
                android:layout_height="wrap_content"
android:hint="Qualification"
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginTop="20dp"></EditText>
          <EditText android:id="@+id/editText7"
android:layout_width="match_parent"
                android:layout_height="wrap_content"
android:hint="Experience"
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginTop="20dp"></EditText>
          <Button android:id="@+id/button1"
android:layout_width="match_parent"
                android:layout_height="wrap_content"
android:text="Register"
                android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                android:layout_marginTop="20dp"></Button>
     </LinearLayout>
</ScrollView>
```

"Output"



Question11:Display contents of call log

"Activity file"

```
package callDuration.com;


import android.app.Activity;

import android.database.Cursor;

import android.os.Bundle;

import android.provider.CallLog;
```

```
import android.widget.TextView;


public class CallDurationActivity extends Activity {
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);


        Cursor calls = managedQuery(CallLog.Calls.CONTENT_URI, null, null, null, null);
        int duration_index=calls.getColumnIndex(CallLog.Calls.DURATION);
        int name_index = calls.getColumnIndex(CallLog.Calls.CACHED_NAME);
        String log="";
        if(calls != null){
          calls.moveToFirst();
          do{
                log
=log+Integer.parseInt(calls.getString(duration_index))+"\t"+calls.getString(name_index)+
"\n";
```

```
        }while(calls.moveToNext());

      }

      final TextView t1 = (TextView)findViewById(R.id.textView2);

      t1.setText(log);



   }

}
```

"main.xml"

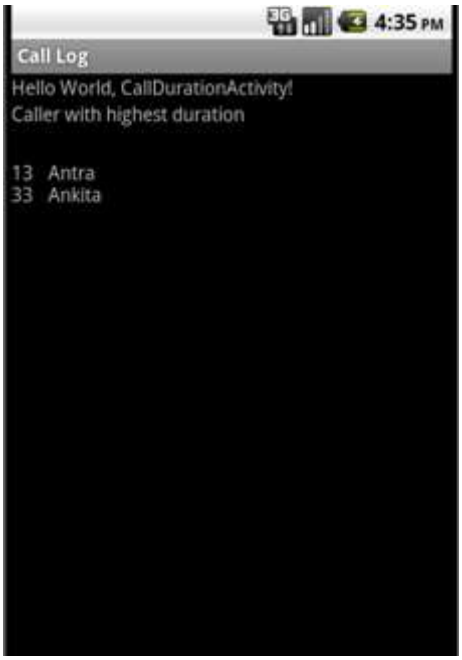
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
   android:orientation="vertical"
   android:layout_width="fill_parent"
   android:layout_height="fill_parent"
   android:weightSum="1">
<TextView
   android:layout_width="fill_parent"
   android:layout_height="wrap_content"
   android:text="@string/hello"
   />
<TextView android:text="Caller with highest duration"
android:layout_height="wrap_content" android:id="@+id/textView1"
android:layout_weight="0.06" android:layout_width="186dp"></TextView>
<TextView android:text="TextView" android:id="@+id/textView2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"></TextView>
```

```
</LinearLayout>
```

"AndriodManifest"

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="callDuration.com"
    android:versionCode="1"
    android:versionName="1.0">
  <uses-sdk android:minSdkVersion="8" />
  <uses-permission android:name="android.permission.CALL_PHONE"></uses-
permission>
  <uses-permission android:name="android.permission.READ_CONTACTS"></uses-
permission>

  <application android:icon="@drawable/icon" android:label="@string/app_name">
    <activity android:name=".CallDurationActivity"
          android:label="@string/app_name">
      <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
      </intent-filter>
    </activity>

  </application>
</manifest>
```

"Output"



Question12:Display content of contacts.

"Activity file"

```
package contacts.com;



import android.app.Activity;

import android.database.Cursor;

import android.os.Bundle;

import android.provider.CallLog;

import android.provider.Contacts;
```

```
import android.provider.ContactsContract;

import android.widget.TextView;


@SuppressWarnings("deprecation")

public class ContactsActivity extends Activity {/

    /** Called when the activity is first created. */

    @Override

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.main);


        Cursor calls = managedQuery(Contacts.Phones.CONTENT_URI, null, null, null,
null);

        int name=calls.getColumnIndex(Contacts.Phones.NAME);

        int number= calls.getColumnIndex(Contacts.Phones.NUMBER);

        String log="";

        if(calls != null){

          calls.moveToFirst();

          do{
```

```
                log =log+calls.getString(name)+"\t"+calls.getString(number)+"\n";


          }while(calls.moveToNext());

        }

        final TextView t1 = (TextView)findViewById(R.id.textView1);

        t1.setText(log);



    }

 }
```

"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:weightSum="1">
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/hello"
    />
<TextView android:id="@+id/textView1" android:layout_height="wrap_content"
android:text="TextView" android:layout_width="292dp"
android:layout_weight="0.34"></TextView>
```

```
</LinearLayout>
```

“Android manifest”

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="contacts.com"
    android:versionCode="1"
    android:versionName="1.0">
   <uses-sdk android:minSdkVersion="8" />
   <uses-permission android:name="android.permission.READ_CONTACTS"></uses-
permission>

   <application android:icon="@drawable/icon" android:label="@string/app_name">
      <activity android:name=".ContactsActivity"
            android:label="@string/app_name">
         <intent-filter>
            <action android:name="android.intent.action.MAIN" />
            <category android:name="android.intent.category.LAUNCHER" />
         </intent-filter>
      </activity>

   </application>
</manifest>
```

“Output”

Question13:Extract date and time through user provided input and display.

"Activity file"

```
package com.que13;


import com.que13.R;


import android.app.Activity;

import android.os.Bundle;

import android.view.View;
```

```
import android.widget.Button;

import android.widget.DatePicker;

import android.widget.Toast;


public class Que13Activity extends Activity {

        DatePicker dpDateOfBirth;

        Button button;

    @Override

    public void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.main);


        dpDateOfBirth = (DatePicker) findViewById(R.id.datePicker1);

        button = (Button) findViewById(R.id.button1);

        button.setOnClickListener(new View.OnClickListener() {


                        public void onClick(View v) {

                                Toast.makeText(getApplicationContext(),
dpDateOfBirth.getDayOfMonth() + "-"
```

```
                                        + (dpDateOfBirth.getMonth()+1) + "-"

                                        + dpDateOfBirth.getYear(),
Toast.LENGTH_LONG).show();



                        }

                });

    }

}
```

"main.xml"

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
        android:orientation="vertical" android:layout_width="fill_parent"
        android:layout_height="fill_parent">
        <TextView android:layout_width="fill_parent"
                android:layout_height="wrap_content" android:text="@string/hello" />
        <DatePicker android:id="@+id/datePicker1"
                android:layout_width="wrap_content"
android:layout_height="wrap_content"
                android:layout_marginLeft="20dp" android:layout_marginRight="20dp"
                android:layout_marginTop="20dp"></DatePicker>
        <Button android:id="@+id/button1" android:layout_width="match_parent"
                        android:layout_height="wrap_content" android:text="Enter"
                        android:layout_marginLeft="20dp"
android:layout_marginRight="20dp"
                        android:layout_marginTop="20dp"></Button>
```

</LinearLayout>

“Output”