|  |  |  |  |
| --- | --- | --- | --- |
| **Technology Name :** | | | |
| **Details given by:** | | **Assignment Given** | |
| **Date and day of session:29may17** | |
| **S.no** | **Sub - Topic Name** | **Theory** | **Practical** |
| **1** | **DBMS:joins,in not in keywords** | Q1)describe joins | **Q1)write join quries(inner,left,right and outer join).**  **Q2)write quries to use in and not in keyword.**  **Q3)write query to delete duplicate data from table.** |

User table

|  |  |  |
| --- | --- | --- |
| **id** | **name** | **course** |
| 1 | Alice | 1 |
| 2 | Bob | 1 |
| 3 | Caroline | 2 |
| 4 | David | 5 |
| 5 | Emma | (NULL) |

Course table

|  |  |
| --- | --- |
| **id** | **name** |
| 1 | HTML5 |
| 2 | CSS3 |
| 3 | JavaScript |
| 4 | PHP |
| 5 | MySQL |

Answer 1:-

**INNER JOIN:-**

SELECT user.name, course.name

FROM `user`

INNER JOIN `course` on user.course = course.id;

Output:-

|  |  |
| --- | --- |
| **user.name** | **course.name** |
| Alice | HTML5 |
| Bob | HTML5 |
| Carline | CSS3 |
| David | MySQL |

LEFT JOIN:-

SELECT user.name, course.name

FROM `user`

LEFT JOIN `course` on user.course = course.id;

Output:-

|  |  |
| --- | --- |
| user.name | course.name |
| Alice | HTML5 |
| Bob | HTML5 |
| Carline | CSS3 |
| David | MySQL |
| Emma | (NULL) |

**RIGHT JOIN:-**

SELECT user.name, course.name

FROM `user`

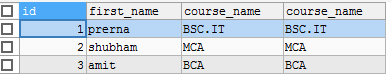
RIGHT JOIN `course` on user.course = course.id;

**Output:-**

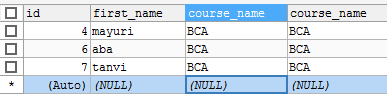
|  |  |
| --- | --- |
| **user.name** | **course.name** |
| Alice | HTML5 |
| Bob | HTML5 |
| Carline | CSS3 |
| (NULL) | JavaScript |
| (NULL) | PHP |
| David | MySQL |

**Answer 2:-**

**SELECT id,first\_name,course\_name,course\_name FROM register WHERE id IN (1,2,3);output:-**

****

**SELECT id,first\_name,course\_name,course\_name FROM register WHERE id NOT IN (1,2,3);**

****

**Answer 3:-**

**DELETE t1 FROM test t1, test t2 WHERE t1.name = t2.name AND t1.id > t2.id;**

**Sample Table:**

salesman-

salesman\_id name city commission

----------- ---------- ---------- ----------

5001 James Hoog New York 0.15

5002 Nail Knite Paris 0.13

5005 Pit Alex London 0.11

5006 Mc Lyon Paris 0.14

5003 Lauson Hen 0.12

5007 Paul Adam Rome 0.13

orders-

ord\_no purch\_amt ord\_date customer\_id salesman\_id

---------- ---------- ---------- ----------- -----------

70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

customer-

customer\_id cust\_name city grade salesman\_id

----------- ------------ ---------- ---------- -----------

3002 Nick Rimando New York 100 5001

3005 Graham Zusi California 200 5002

3001 Brad Guzan London 5005

3004 Fabian Johns Paris 300 5006

3007 Brad Davis New York 200 5001

3009 Geoff Camero Berlin 100 5003

3008 Julian Green London 300 5002

3003 Jozy Altidor Moscow 200 5007

item\_mast

PRO\_ID PRO\_NAME PRO\_PRICE PRO\_COM

------- ------------------------- ---------- ----------

101 Mother Board 3200 15

102 Key Board 450 16

103 ZIP drive 250 14

104 Speaker 550 16

105 Monitor 5000 11

106 DVD drive 900 12

107 CD drive 800 12

108 Printer 2600 13

109 Refill cartridge 350 13

110 Mouse 250 12

**1.** Write a SQL statement to display all the information of all salesmen.

Sample table: salesman

**2.** Write a SQL statement to display specific columns like name and commission for all the salesmen.      
Sample table: salesman

**3.** Write a query to display the columns in a specific order like order date, salesman id, order number and purchase amount from for all the orders.

Sample table: orders

**4.** Write a SQL statement to display names and city of salesman, who belongs to the city of Paris.

Sample table: salesman

**5.** Write a SQL statement to display all the information for those customers with a grade of 200.

**6.** Write a SQL query to display the order number followed by order date and the purchase amount for each order which will be delivered by the salesman who is holding the ID 5001.

Sample table: orders

**7.** Write a SQL query to calculate the average price of all products of the manufacturer which code is l6.

Sample table: item\_mast

**8.** Write a SQL query to display the name and price of all the items with a price is equal or more than Rs.250, and the list contain the larger price first and then by name in ascending order.

Sample table: item\_mast

**9.** Write a SQL query to display the average price of the items for each company, showing only the company code.

Sample table: item\_mast

**10.** Write a SQL query to find the name and price of the cheapest itemSample table: item\_mast

Ans1 :- select \* from salesman;

Ans 2:-select name,commission from salesman;

Ans 3:-select ord\_date,salesman\_id, ord\_no, purch\_amt from orders;

Ans 4:-select name,city from salesman where city=’paris’;

Ans 5:- select \* from customer where grade=200;

Ans 6:-select ord\_no, ord\_date, purch\_amt from orders where salesman\_id=5001;

Ans 7:-select avg(pro\_price) from item\_mast where pro\_com=16;

Ans 8:-select pro\_name,pro\_price from item\_mast where pro\_price>=250 order by pro\_price desc, pro\_name;

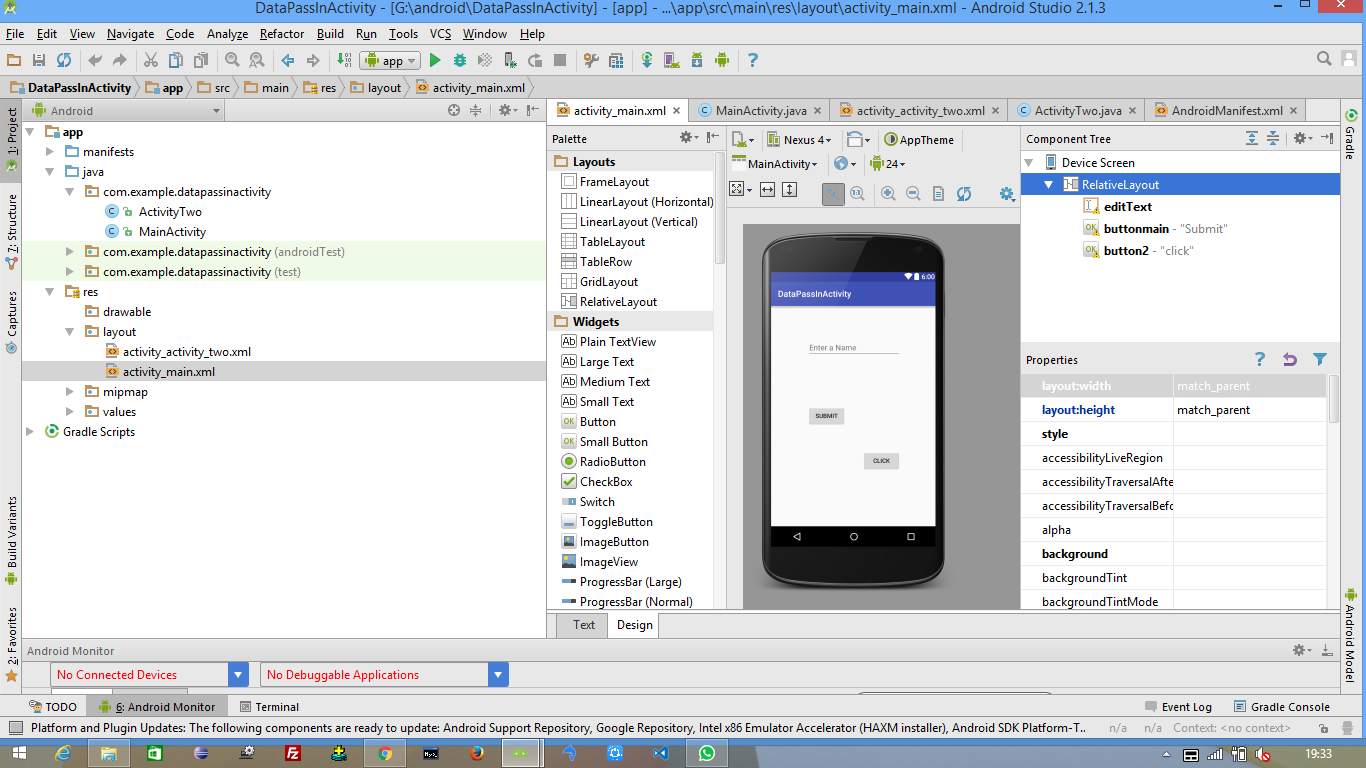
Ans 9:-select avg(pro\_price), pro\_com from item\_mast group by pro\_com;

Ans 10:-select pro\_name,pro\_price from item\_mast where pro\_price=(select min(pro\_price) from item\_mast);

Question 1:-Create an application which shows Activity life Cycle with Toast message.

**package** com.example.myapplication;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 }  
 @Override  
 **protected void** onStart() {  
 **super**.onStart();  
 Toast.*makeText*(MainActivity.**this**,**"ON START"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 @Override  
 **protected void** onResume() {  
 **super**.onResume();  
 Toast.*makeText*(MainActivity.**this**,**"ON RESUME"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 @Override  
 **protected void** onPause() {  
 **super**.onPause();  
 Toast.*makeText*(MainActivity.**this**,**"ON PAUSE"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 @Override  
 **protected void** onRestart() {  
 **super**.onRestart();  
 Toast.*makeText*(MainActivity.**this**,**"ON RESTART"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 @Override  
 **protected void** onStop() {  
 **super**.onStop();  
 Toast.*makeText*(MainActivity.**this**,**"ON STOP"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 @Override  
 **protected void** onDestroy() {  
 **super**.onDestroy();  
 Toast.*makeText*(MainActivity.**this**,**"ON DESTROY"**, Toast.***LENGTH\_SHORT***).show();  
 }  
}

Question:-2:-Create an application to show , how to pass data between Activities using intent , also give the example of implicit intent and explicit intent.



Activity\_main.xml:-

*<?***xml version="1.0" encoding="utf-8"***?>*<**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:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context="com.example.datapassinactivity.MainActivity"**>  
  
  
 <**EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="textPersonName"  
 android:ems="10"  
 android:id="@+id/editText"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="60dp"  
 android:hint="Enter a Name"** />  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"  
 android:id="@+id/buttonmain"  
 android:layout\_centerVertical="true"  
 android:layout\_alignStart="@+id/editText"** />  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="click"  
 android:id="@+id/button2"  
 android:layout\_below="@+id/buttonmain"  
 android:layout\_alignEnd="@+id/editText"  
 android:layout\_marginTop="56dp"** />  
</**RelativeLayout**>

Activity\_activity\_two.xml:-

*<?***xml version="1.0" encoding="utf-8"***?>*<**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:orientation="vertical"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context="com.example.datapassinactivity.ActivityTwo"  
 android:background="#d4c1c1"**>  
  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:text="This is Activity Two"** />  
  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/textviewsecontactivity"  
 android:text=""** />  
  
</**LinearLayout**>

MainActivity:-

package com.example.datapassinactivity;

import android.content.Intent;

import android.net.Uri;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

onclickbuttontopassdata();

}

public void onclickbuttontopassdata()

{

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

button.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

String url=editText.getText().toString();

Intent intent=new Intent(Intent.ACTION\_VIEW, Uri.parse(url));

startActivity(intent);

}

});

Button btn=(Button)findViewById(R.id.buttonmain);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

String datato =tdt.getText().toString();

Intent intent = new Intent(MainActivity.this,ActivityTwo.class);

intent.putExtra("datatosend",datato);

startActivity(intent);

}

});

}

}

ActivityTwo:-

**package** com.example.datapassinactivity;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.widget.TextView;  
  
**public class** ActivityTwo **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_activity\_two***);  
  
  
 Bundle bundle=getIntent().getExtras();  
  
  
 String string=**null**;  
  
  
 **if**(bundle !=**null**)  
 {  
 string = bundle.getString(**"datatosend"**);  
  
 }  
  
 TextView textView=(TextView)findViewById(R.id.***textviewsecontactivity***);  
 textView.setText(string);  
  
 }  
  
  
}

Answer:-3:-Create an application with two  dynamic fragments (Fragment A and Fragment B)and pass the data between activity to fragments, fragments to activity and fragment to fragment.

Activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:orientation="vertical"  
 android:layout\_height="match\_parent"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context="com.example.fragmenttofragment.MainActivity"**>  
  
<**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/edittextActivity"  
 android:hint="Enter some text"**/>  
  
 <**Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Send"  
 android:id="@+id/activityButton"  
 android:layout\_marginTop="4dp"  
 android:layout\_marginBottom="4dp"**/>  
 <**FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/FrameLayout"** >  
 </**FrameLayout**>  
</**LinearLayout**>

Fragment\_fragment\_one.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:orientation="vertical"  
 tools:context="com.example.fragmenttofragment.FragmentOne"  
 android:background="#b6c0f9"**>  
  
 *<!--* ***TODO: Update blank fragment layout*** *-->* <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/textviewfragone"  
 android:layout\_marginTop="30dp"**/>  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/edittextfragone"  
 android:hint="Enter Name"**/>  
 <**Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/Buttonfragone"  
 android:text="Button 1 Frag"**/>  
</**LinearLayout**>

Fragment\_fragment\_two.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:orientation="vertical"  
 android:id="@+id/fragment2"  
 tools:context="com.example.fragmenttofragment.FragmentTwo"  
 android:background="#cde4f2"**>  
  
 *<!--* ***TODO: Update blank fragment layout*** *-->* <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/textviewfragtwo"**/>  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/edittextfragtwo"  
 android:hint="Enter Name"**/>  
 <**Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/Buttonfragone"  
 android:text="Button 2 Frag"**/>  
  
</**LinearLayout**>

FragmentOne.class

**package** com.example.fragmenttofragment;  
  
**import** android.app.Activity;  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.support.v4.app.Fragment;  
**import** android.support.v4.app.FragmentManager;  
**import** android.support.v4.app.FragmentTransaction;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** org.w3c.dom.Text;  
  
**public class** FragmentOne **extends** Fragment {  
 *//* ***TODO: Rename parameter arguments, choose names that match*** *// the fragment initialization parameters, e.g. ARG\_ITEM\_NUMBER* **private static final** String ***ARG\_PARAM1*** = **"param1"**;  
 **private static final** String ***ARG\_PARAM2*** = **"param2"**;  
  
 EditText **editTextFragone**;  
 Button **buttonGragone**;  
 OnNameSetListener **onNameSetListener**;  
 Button **openactivity**;  
  
  
 **private** OnFragmentInteractionListener **mListener**;  
  
 *//* ***TODO: Rename and change types and number of parameters* public static** FragmentOne newInstance(String param1, String param2) {  
 FragmentOne fragment = **new** FragmentOne();  
 Bundle args = **new** Bundle();  
 args.putString(***ARG\_PARAM1***, param1);  
 args.putString(***ARG\_PARAM2***, param2);  
 fragment.setArguments(args);  
 **return** fragment;  
 }  
  
 @Override  
 **public void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
  
  
 }  
 MainActivity **context**;  
 @Override  
 **public** View onCreateView(LayoutInflater inflater, **final** ViewGroup container,  
 Bundle savedInstanceState) {  
 **context**= (MainActivity) getActivity();  
 *// Inflate the layout for this fragment* String strtext = getArguments().getString(**"message"**);  
  
 View view;  
 view=inflater.inflate(R.layout.***fragment\_fragment\_one***, container, **false**);  
 TextView textView=(TextView) view.findViewById(R.id.***textviewfragone***);  
 textView.setText(strtext);  
 **editTextFragone**=(EditText)view.findViewById(R.id.***edittextfragone***);  
 **buttonGragone**=(Button)view.findViewById(R.id.***Buttonfragone***);  
 **buttonGragone**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String name=**editTextFragone**.getText().toString();  
 FragmentTwo fragmentTwo = **new** FragmentTwo();  
 FragmentManager fragmentManager=getFragmentManager();  
 FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();  
 *//onNameSetListener.setName(name);* fragmentTransaction.replace(R.id.***FrameLayout***,fragmentTwo);  
 fragmentTransaction.commit();  
 }  
 });  
 **return** view;  
 }  
  
 **public interface** OnNameSetListener  
 {  
  
 **public void** setName(String name);  
 }  
  
 **public interface** OnFragmentInteractionListener {  
 *//* ***TODO: Update argument type and name* void** onFragmentInteraction(Uri uri);  
 }  
}

FragmentTwo.class

**package** com.example.fragmenttofragment;  
  
**import** android.content.Context;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.support.v4.app.Fragment;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.TextView;  
  
  
  
**public class** FragmentTwo **extends** Fragment {  
 *//* ***TODO: Rename parameter arguments, choose names that match*** *// the fragment initialization parameters, e.g. ARG\_ITEM\_NUMBER* TextView **textView**;  
  
 *//* ***TODO: Rename and change types of parameters* private** String **mParam1**;  
 **private** String **mParam2**;  
  
 **private** OnFragmentInteractionListener **mListener**;  
  
 **public** FragmentTwo() {  
 *// Required empty public constructor* }  
 *//* ***TODO: Rename and change types and number of parameters*** @Override  
 **public** View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 *// Inflate the layout for this fragment* View view =inflater.inflate(R.layout.***fragment\_fragment\_two***, container, **false**);  
 **textView**=(TextView)view.findViewById(R.id.***textviewfragtwo***);  
 **textView**.setVisibility(View.***GONE***);  
 **return** view;  
 }  
 **public void** updateInfo(String name)  
 {  
 **textView**.setText(**"hello "**+name);  
 **textView**.setVisibility(View.***VISIBLE***);  
 }  
  
 **public interface** OnFragmentInteractionListener {  
 *//* ***TODO: Update argument type and name* void** onFragmentInteraction(Uri uri);  
 }  
}

MainActivity.class

**package** com.example.fragmenttofragment;  
  
**import** android.content.Intent;  
**import** android.support.v4.app.Fragment;  
**import** android.support.v4.app.FragmentManager;  
**import** android.support.v4.app.FragmentTransaction;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.FrameLayout;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** FragmentOne.OnNameSetListener {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 Button btnLoad = (Button) findViewById(R.id.***activityButton***);  
 **final** EditText editTextact =(EditText)findViewById(R.id.***edittextActivity***);  
  
 btnLoad.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
  
 String data=editTextact.getText().toString();  
 Bundle bundle = **new** Bundle();  
 bundle.putString(**"message"**, data);  
 *// set Fragmentclass Arguments* FragmentOne fragmentOne = **new** FragmentOne();  
 fragmentOne.setArguments(bundle);  
 FragmentManager fragmentManager=getSupportFragmentManager();  
 FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();  
 fragmentTransaction.add(R.id.***FrameLayout***,fragmentOne);  
 fragmentTransaction.commit();  
 }  
 });  
  
 }  
 @Override  
 **public void** setName(String name) {  
 *// FrameLayout frameLayout=(FrameLayout)findViewById(R.id.FrameLayout);* FragmentTwo fragmentTwo=(FragmentTwo)getSupportFragmentManager().findFragmentById(R.id.***fragment2***);  
 fragmentTwo.updateInfo(name);  
 }  
}

|  |  |  |  |
| --- | --- | --- | --- |
| **Android** | | | |
| **Details given by: Lokesh Kukreti** | | **Assignment Given** | |
| **Date and day of session: 23-05-2017** | |
| **S.no** | **Sub - Topic Name** | **Theory** | **Practical** |
| **1**  **2**  **3**  **4** | **ActionBar and ToolBar**  **Menu**  **ListView**  **Shared Preferences** | 1. **Differentiate ActionBar and Toolbar.**   **2. Differentiate BaseAdapter, ArrayAdapter and CursorAdapter.**  **3. What is “Shared Preferences” in Android and when is it used?** | **1. Create an application with toolbar and menu Items and perform click events on Menu Item selection.**  **2. Create an application to show the Data in ListView using Custom Adapter(Adapter extends BaseAdapter).**  **3. Store and Retrieve Data using Shared Preferences.** |

Ans 1:-

Main activity.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
  
 android:layout\_width="match\_parent"  
  
 android:layout\_height="match\_parent"**>  
  
<**android.support.v7.widget.Toolbar  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:id="@+id/my\_awesome\_toolbar"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="128dp"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentTop="true"  
 android:background="?attr/colorPrimary"  
 android:minHeight="?attr/actionBarSize"  
 app:theme="@style/Animation.AppCompat.Dialog"**>  
 </**android.support.v7.widget.Toolbar**>  
 </**LinearLayout**>

Main activity.java

**package** com.example.tool;  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity {  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 }  
 private Menu menu;  
 @Override  
 public boolean onCreateOptionsMenu(Menu menu) {  
 MenuInflater inflater = getMenuInflater();  
 inflater.inflate(R.menu.menu, menu);  
 this.menu = menu;  
 return super.onCreateOptionsMenu(menu);  
 }  
 @Override  
 public boolean onOptionsItemSelected(MenuItem item) {  
 // int id=item.getItemId();  
 switch (item.getItemId()){  
 case R.id.action\_favorite:  
 Intent intent=new Intent(MainActivity.this,Second.class);  
 startActivity(intent);  
 break;  
 case R.id.action\_settings:  
 Toast.makeText(MainActivity.this, "setting", Toast.LENGTH\_SHORT).show();  
 break;  
 }  
 return true;  
 }  
}

Menu.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**menu xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 tools:context=".MainActivity"** >  
 <**item  
 android:id="@+id/action\_favorite"  
 android:icon="@mipmap/ic\_launcher"  
 android:title="@string/search"  
 android:showAsAction="ifRoom"  
 android:orderInCategory="100"**/>  
 *<!-- Settings, should always be in the overflow -->* <**item android:id="@+id/action\_settings"  
 android:icon="@mipmap/ic\_launcher"  
 android:title="@string/setting"  
 android:showAsAction="ifRoom"  
 android:orderInCategory="101"**/>  
 <**item android:id="@+id/profile"  
 android:title="profile"  
 android:icon="@mipmap/ic\_launcher"  
 android:showAsAction="always"  
 android:orderInCategory="103"** />  
 <**item android:id="@+id/contact"  
 android:title="contact"  
 app:showAsAction="ifRoom"  
 android:orderInCategory="104"** />  
 <**item android:id="@+id/shoping"  
 android:title="shoping"  
 app:showAsAction="always"  
 android:orderInCategory="103"** />  
</**menu**>

Ans 2:-

Main layout.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:background="#FFFFFF">  
  
 <ListView  
 android:id="@+id/listView1"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent" />  
  
</LinearLayout>

Listview\_header

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="horizontal"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"**>  
  
 <**TextView android:id="@+id/txtHeader"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"  
 android:gravity="center\_vertical"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentBottom="true"  
 android:textStyle="bold"  
 android:textSize="22dp"  
 android:textColor="#FFFFFF"  
 android:padding="10dp"  
 android:text="Weather Photos"  
 android:background="#336699"** />  
  
</**LinearLayout**>

Listview\_item

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:orientation="horizontal"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"  
 android:padding="10dp"**>  
  
 <**ImageView android:id="@+id/imgIcon"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="fill\_parent"  
 android:gravity="center\_vertical"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginRight="15dp"  
 android:layout\_marginTop="5dp"  
 android:layout\_marginBottom="5dp"** />  
  
 <**TextView android:id="@+id/txtTitle"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"  
 android:gravity="center\_vertical"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentBottom="true"  
 android:textStyle="bold"  
 android:textSize="22dp"  
 android:textColor="#000000"  
 android:layout\_marginTop="5dp"  
 android:layout\_marginBottom="5dp"** />  
  
</**LinearLayout**>

Main activity.java

**package** com.example.listviewarrayadpt;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.ListView;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **private** ListView listView1;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
 Weather weather\_data[] = **new** Weather[]  
 {  
 **new** Weather(R.drawable.images, **"Cloudy"**),  
 **new** Weather(R.drawable.images, **"Showers"**),  
 **new** Weather(R.drawable.images, **"Snow"**),  
 **new** Weather(R.drawable.images, **"Storm"**),  
 **new** Weather(R.drawable.images, **"Sunny"**)  
 };  
  
 WeatherAdapter adapter = **new** WeatherAdapter(**this**,  
 R.layout.listview\_item\_row, weather\_data);  
  
  
 listView1 = (ListView)findViewById(R.id.listView1);  
  
 View header = (View)getLayoutInflater().inflate(R.layout.listview\_header\_row, **null**);  
 listView1.addHeaderView(header);  
  
 listView1.setAdapter(adapter);  
 }  
  
}

WeatherAdapter.java

**package** com.example.listviewarrayadpt;  
  
**import** android.app.Activity;  
**import** android.content.Context;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.ImageView;  
**import** android.widget.TextView;  
  
*/\*\*  
 \* Created by shubham on 04-06-2017.  
 \*/***public class** WeatherAdapter **extends** ArrayAdapter<Weather>  
{  
  
 Context **context**;  
 **int layoutResourceId**;  
 Weather **data**[] = **null**;  
  
 **public** WeatherAdapter(Context context, **int** layoutResourceId, Weather[] data) {  
 **super**(context, layoutResourceId, data);  
 **this**.**layoutResourceId** = layoutResourceId;  
 **this**.**context** = context;  
 **this**.**data** = data;  
 }  
  
 @Override  
 **public** View getView(**int** position, View convertView, ViewGroup parent) {  
 View row = convertView;  
 WeatherHolder holder = **null**;  
  
 **if**(row == **null**)  
 {  
 LayoutInflater inflater = ((Activity)**context**).getLayoutInflater();  
 row = inflater.inflate(**layoutResourceId**, parent, **false**);  
  
 holder = **new** WeatherHolder();  
 holder.**imgIcon** = (ImageView)row.findViewById(R.id.***imgIcon***);  
 holder.**txtTitle** = (TextView)row.findViewById(R.id.***txtTitle***);  
  
 row.setTag(holder);  
 }  
 **else** {  
 holder = (WeatherHolder)row.getTag();  
 }  
  
 Weather weather = **data**[position];  
 holder.**txtTitle**.setText(weather.**title**);  
 holder.**imgIcon**.setImageResource(weather.**icon**);  
  
 **return** row;  
 }  
  
 **static class** WeatherHolder  
 {  
 ImageView **imgIcon**;  
 TextView **txtTitle**;  
 }  
}

Weather.java

**package** com.example.listviewarrayadpt;  
  
*/\*\*  
 \* Created by shubham on 04-06-2017.  
 \*/***public class** Weather {  
 **public int icon**;  
 **public** String **title**;  
 **public** Weather(){  
 **super**();  
 }  
  
 **public** Weather(**int** icon, String title) {  
 **super**();  
 **this**.**icon** = icon;  
 **this**.**title** = title;  
 }  
}

Ans 3:

Main activity.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**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:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context="com.example.shearedsavedata.MainActivity"  
 android:orientation="vertical"**>  
  
  
  
  
 <**EditText  
 android:id="@+id/etEmail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Email"  
 android:inputType="textEmailAddress"  
 android:layout\_below="@+id/etName"  
 android:layout\_marginTop="20dp"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentEnd="true"** />  
  
 <**EditText  
 android:id="@+id/etName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Name"  
 android:inputType="text"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignLeft="@+id/etEmail"  
 android:layout\_alignStart="@+id/etEmail"** />  
  
  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/txtname1"  
 android:textSize="20dp"** />  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/txtemail1"  
 android:textSize="20dp"** />  
<**LinearLayout  
 android:layout\_marginTop="20dp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
 <**Button  
 android:id="@+id/btnSave"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:onClick="Save"  
 android:text="Save"** />  
  
 <**Button  
 android:id="@+id/btnRetr"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:onClick="Get"  
 android:text="Retrieve"** />  
  
 <**Button  
 android:id="@+id/btnClear"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignRight="@+id/etEmail"  
  
 android:onClick="clear"  
 android:text="Clear"** />  
</**LinearLayout**>  
</**LinearLayout**>

Main activity.java

**package** com.example.shearedsavedata;  
  
**import** android.content.Context;  
**import** android.content.SharedPreferences;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.Menu;  
**import** android.view.View;  
**import** android.widget.TextView;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 SharedPreferences **sharedpreferences**;  
 TextView **name**;  
 TextView **email**;  
 **public static final** String ***mypreference*** = **"mypref"**;  
 **public static final** String ***Name*** = **"nameKey"**;  
 **public static final** String ***Email*** = **"emailKey"**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
  
 **name** = (TextView) findViewById(R.id.***etName***);  
 **email** = (TextView) findViewById(R.id.***etEmail***);  
 **sharedpreferences** = getSharedPreferences(***mypreference***,  
 Context.***MODE\_PRIVATE***);  
 **if** (**sharedpreferences**.contains(***Name***)) {  
 **name**.setText(**sharedpreferences**.getString(***Name***, **""**));  
 }  
 **if** (**sharedpreferences**.contains(***Email***)) {  
 **email**.setText(**sharedpreferences**.getString(***Email***, **""**));  
  
 }  
 }  
 **public void** Save(View view) {  
 String n = **name**.getText().toString();  
 String e = **email**.getText().toString();  
 SharedPreferences.Editor editor = **sharedpreferences**.edit();  
 editor.putString(***Name***, n);  
 editor.putString(***Email***, e);  
 editor.commit();  
 }  
  
 **public void** clear(View view) {  
 **name** = (TextView) findViewById(R.id.***etName***);  
 **email** = (TextView) findViewById(R.id.***etEmail***);  
 **name**.setText(**""**);  
 **email**.setText(**""**);  
  
 }  
  
 **public void** Get(View view) {  
 **name** = (TextView) findViewById(R.id.***txtname1***);  
 **email** = (TextView) findViewById(R.id.***txtemail1***);  
 **sharedpreferences** = getSharedPreferences(***mypreference***,  
 Context.***MODE\_PRIVATE***);  
  
 **if** (**sharedpreferences**.contains(***Name***)) {  
 **name**.setText(**sharedpreferences**.getString(***Name***, **""**));  
 }  
 **if** (**sharedpreferences**.contains(***Email***)) {  
 **email**.setText(**sharedpreferences**.getString(***Email***, **""**));  
  
 }  
 }  
}

|  |  |  |  |
| --- | --- | --- | --- |
| **Android** | | | |
| **Details given by: Lokesh Kukreti** | | **Assignment Given** | |
| **Date and day of session:30-05-2017** | |
| **S.no** | **Sub - Topic Name** | **Theory** | **Practical** |
| **1** | **Android Dialogs(AlertDialog, ProgressDialog)** |  | 1. **Create a Custom AlertDialog using DialogFragment.** |

Ans 1:-main activity.java

**package** com.example.alertdialog;  
  
**import** android.app.AlertDialog;  
**import** android.content.DialogInterface;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.Menu;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **private** Button **button1**;  
 **private** Button **button2**;  
 **private** Button **button3**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **button1** = (Button) findViewById(R.id.***one\_button\_alert***);  
 **button2** = (Button) findViewById(R.id.***two\_button\_alert***);  
 **button3** = (Button) findViewById(R.id.***three\_button\_alert***);  
  
 **button1**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 AlertDialog.Builder builder = **new** AlertDialog.Builder(  
 MainActivity.**this**);  
 builder.setTitle(**"Sample Alert"**);  
 builder.setMessage(**"One Action Button Alert"**);  
 builder.setPositiveButton(**"OK"**,  
 **new** DialogInterface.OnClickListener() {  
 **public void** onClick(DialogInterface dialog,  
 **int** which) {  
 Toast.*makeText*(getApplicationContext(),**"Yes is clicked"**,Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 builder.show();  
 }  
 });  
 **button2**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 AlertDialog.Builder builder = **new** AlertDialog.Builder(  
 MainActivity.**this**);  
 builder.setTitle(**"Sample Alert"**);  
 builder.setMessage(**"Two Action Buttons Alert Dialog"**);  
 builder.setNegativeButton(**"NO"**,  
 **new** DialogInterface.OnClickListener() {  
 **public void** onClick(DialogInterface dialog,  
 **int** which) {  
 Toast.*makeText*(getApplicationContext(),**"No is clicked"**,Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 builder.setPositiveButton(**"YES"**,  
 **new** DialogInterface.OnClickListener() {  
 **public void** onClick(DialogInterface dialog,  
 **int** which) {  
 Toast.*makeText*(getApplicationContext(),**"Yes is clicked"**,Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 builder.show();  
 }  
 });  
 **button3**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 AlertDialog.Builder builder = **new** AlertDialog.Builder(  
 MainActivity.**this**);  
 builder.setTitle(**"Sample Alert"**);  
 builder.setMessage(**"Three Action Buttons Alert Dialog"**);  
 builder.setNegativeButton(**"NO"**,  
 **new** DialogInterface.OnClickListener() {  
 **public void** onClick(DialogInterface dialog,  
 **int** which) {  
 Toast.*makeText*(getApplicationContext(),**"No is clicked"**,Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 builder.setPositiveButton(**"YES"**,  
 **new** DialogInterface.OnClickListener() {  
 **public void** onClick(DialogInterface dialog,  
 **int** which) {  
 Toast.*makeText*(getApplicationContext(),**"Yes is clicked"**,Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 builder.setNeutralButton(**"CANCEL"**,  
 **new** DialogInterface.OnClickListener() {  
 **public void** onClick(DialogInterface dialog,  
 **int** which) {  
 Toast.*makeText*(getApplicationContext(),**"Cancel is clicked"**, Toast.***LENGTH\_LONG***).show();  
 }  
 });  
  
 builder.show();  
 }  
 });  
 }  
}

main activity .xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**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:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context="com.example.alertdialog.MainActivity"**>  
  
 <**Button  
 android:id="@+id/one\_button\_alert"  
 android:layout\_width="200dip"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_marginTop="25dip"  
 android:layout\_marginLeft="20dip"  
 android:text="Single Button Alert"** />  
 <**Button  
 android:id="@+id/two\_button\_alert"  
 android:layout\_width="200dip"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_below="@id/one\_button\_alert"  
 android:layout\_marginLeft="20dip"  
 android:text="Two Buttons Alert"** />  
 <**Button  
 android:id="@+id/three\_button\_alert"  
 android:layout\_width="200dip"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_below="@id/two\_button\_alert"  
 android:layout\_marginLeft="20dip"  
 android:text="Three Buttons Alert"** />  
</**RelativeLayout**>