

Program No:9

Date:21/10/2024

APPLICATION USING INTENT

AIM

Implement intent to navigate between multiple activities

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:textAlignment="textStart"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <TextView
            android:id="@+id/textView3"
            android:layout_width="417dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Registartion form"
            android:textAlignment="center"
            android:textSize="20sp" />

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">
```

```
<TextView
```

```
    android:id="@+id/td"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="31dp"
```

```
    android:layout_weight="1"
```

```
    android:text="Name"
```

```
    android:textSize="16sp" />
```

```
<EditText
```

```
    android:id="@+id/ed_name"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_weight="1"
```

```
    android:ems="10"
```

```
    android:hint="enter your name"
```

```
    android:inputType="text"
```

```
    android:onClick="enter your name" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:orientation="horizontal">
```

```
<TextView
```

```
    android:id="@+id/td1"
```

```
    android:layout_width="208dp"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_weight="1"
```

```
    android:text="Email"
```

```
    android:textSize="16sp" />
```

```
<EditText
```

```
    android:id="@+id/ed_email"
```

```
    android:layout_width="377dp"
```

```
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:ems="10"
        android:hint="enter your email"
        android:inputType="text" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="55dp"
    android:orientation="horizontal"
    android:textAlignment="gravity">
```

```
<TextView
```

```
    android:id="@+id/td2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="password"
    android:textSize="16sp" />
```

```
<EditText
```

```
    android:id="@+id/ed_pass"
    android:layout_width="251dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:ems="10"
    android:hint="enter your password"
    android:inputType="textPassword" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
```

```
    android:id="@+id/td3"
```

```
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_weight="1"
    android:text="Gender"
    android:textAlignment="inherit"
    android:textSize="16sp" />
```

```
<RadioGroup
```

```
    android:id="@+id/rg_gender"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="horizontal">
```

```
<RadioButton
```

```
    android:id="@+id/r_female"
    android:layout_width="93dp"
    android:layout_height="38dp"
    android:text="male" />
```

```
<RadioButton
```

```
    android:id="@+id/r_male"
    android:layout_width="127dp"
    android:layout_height="wrap_content"
    android:text="Female" />
```

```
</RadioGroup>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<CheckBox
```

```
    android:id="@+id/c_agree"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
```

```
        android:text="Agree" />
</LinearLayout>
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <LinearLayout
        android:layout_width="156dp"
        android:layout_height="match_parent"
        android:layout_weight="1"
        android:orientation="horizontal"></LinearLayout>
    <Button
        android:id="@+id/bn1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:onClick="onclick"
        android:text="Button"
        android:textAlignment="center" />
</LinearLayout>
</LinearLayout>
```

MainActivity.java

```
package com.example.bundlelogin;

import static com.example.bundlelogin.R.id.ed_email;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
```

```
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    EditText name;

    EditText email;

    EditText pass;

    RadioGroup gender;

    RadioButton r_female;

    CheckBox agree;

    Button bn;

    Boolean isAllFieldsChecked;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        name=findViewById(R.id.ed_name);

        email=findViewById(ed_email);

        pass=findViewById(R.id.ed_pass);

        gender=findViewById(R.id.rg_gender);

        agree=findViewById(R.id.c_agree);

        bn=findViewById(R.id.bn1);

    }

    public void onclick(View view) {

        isAllFieldsChecked=checkAllFields();

        if(isAllFieldsChecked) {

            Toast.makeText(this, "SUCCESSFULLY", Toast.LENGTH_SHORT).show();

            Intent i=new Intent(MainActivity.this, MainActivity2.class);

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

            i.putExtra("email",email.getText().toString());

            i.putExtra("gender",gender.getCheckedRadioButtonId()==R.id.rg_gender?"male":"Female");

            startActivity(i);

        }

    };

};
```

```
private boolean checkAllFields(){  
    if (name.length() == 0) {  
        name.setError("name is required");  
        return false;  
    }  
    if (email.length() == 0) {  
        email.setError("email is required");  
        return false;  
    } else {  
        String email1 = email.getText().toString();  
        String checkEmail = "[a-zA-Z0-9._-]+@[a-z]+.[a-z]";  
        if (!email1.matches(checkEmail)) {  
            email.setError("select email");  
            return false;  
        }  
    }  
    if (pass.length() == 8) {  
        pass.setError("name is required");  
        return false;  
    }  
    if (gender.getCheckedRadioButtonId() == -1) {  
        r_female.setError("select gender");  
        r_female.requestFocus();  
        return false;  
    }  
    if (!agree.isChecked()) {  
        agree.setError("please agree");  
        agree.requestFocus();  
        return false;  
    }  
    return true;  
}
```

activity_main2.xml

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity2">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="55dp"
        android:text="Registration"
        android:textAlignment="center"
        android:textSize="20sp" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="match_parent"
        android:layout_height="45dp"
        android:text="name"
        android:textSize="20sp" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="match_parent"
        android:layout_height="61dp"
        android:text="email"
        android:textSize="20sp" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="match_parent"
        android:layout_height="46dp"
        android:text="gender"
```



```
        android:textSize="20sp" />
    </LinearLayout>
```

MainActivity.java

```
package com.example.bundlelogin;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity2 extends AppCompatActivity {

    TextView displayname,displaymail,displaygender;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main2);

        Toast.makeText(this, "LOGIN SUCCESSFULLY COMPLETED", Toast.LENGTH_SHORT).show();

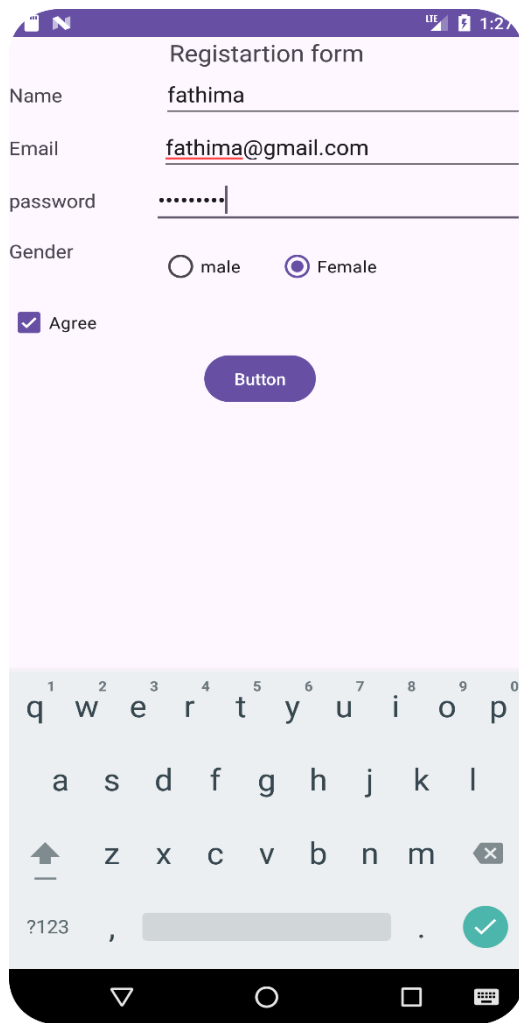
        displayname=findViewById(R.id.textView2);
        displaymail=findViewById(R.id.textView4);
        displaygender=findViewById(R.id.textView5);

        String name=getIntent().getStringExtra("name");
        String email=getIntent().getStringExtra("email");
        String gender=getIntent().getStringExtra("gender");

        displayname.setText ("Name:"+name);
        displaymail.setText ("Email:"+email);
        displaygender.setText ("Gender:"+gender);

    }
}
```

OUTPUT



Registration form

Name: fathima

Email: fathima@gmail.com

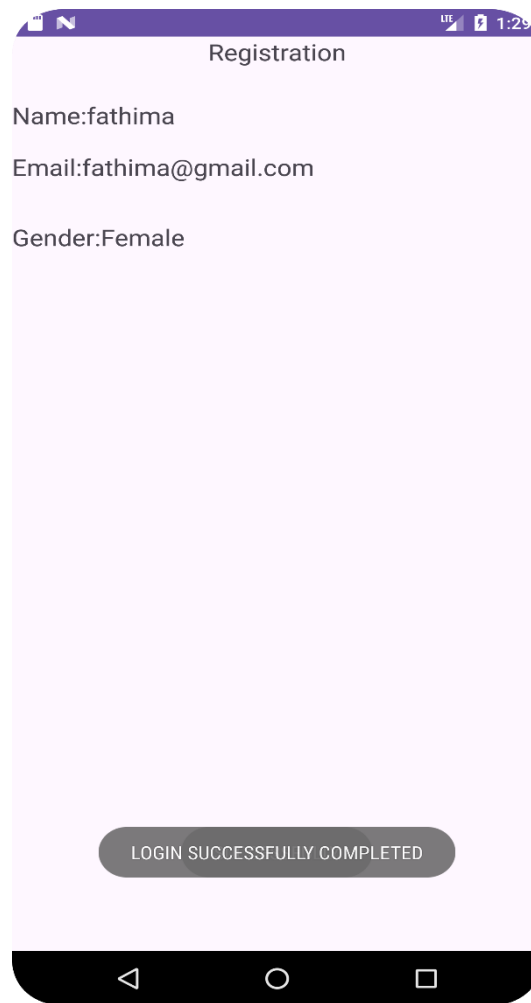
password:

Gender: ☐ male ☒ Female

☒ Agree

Button

QWERTYUIOP
ASDFGHJKL
ZXCVBNM
?123 , . ✓



Registration

Name:fathima

Email:fathima@gmail.com

Gender:Female

LOGIN SUCCESSFULLY COMPLETED

Program No:10

Date:24/10/2024

LISTVIEW

AIM

Develop an application that uses Array adaptor with list view

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/listview"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

</LinearLayout>
```

MainActivity.java

```
package com.example.listview;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.AdapterViewView;

import android.widget.ArrayAdapter;

import android.widget.ListView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    ListView lv;

    String[] s={"Mon","Tue","Wed"};
```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    lv=findViewById(R.id.listView);
    ArrayAdapter<String>adapter=new ArrayAdapter<String>(this,R.layout.layout,R.id.month,s);
    lv.setAdapter(adapter);
    lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
            Toast.makeText(getApplicationContext(),lv.getItemAtPosition(i).toString(),Toast.LENGTH_LONG).show();
        }
    });
}
}

```

Layout.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical">
    <TextView
        android:id="@+id/month"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="MONTH" />
</LinearLayout>

```

OUTPUT



Program No:11

Date:24/10/2024

OPTIONS MENU

AIM

Develop an application to implement an options menu

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.optionmenu;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
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);

    }

    @Override

    public boolean onCreateOptionsMenu(Menu menu) {

        MenuInflater inflater=getMenuInflater();

        inflater.inflate(R.menu.submenu,menu);

        return true;

    }

    @Override

    public boolean onOptionsItemSelected(@NonNull MenuItem item) {

        if (item.getItemId()==R.id.item1)

        {

            Toast.makeText(this,"item1",Toast.LENGTH_SHORT).show();

        } else if (item.getItemId()==R.id.item2) {

            Toast.makeText(this, "item2", Toast.LENGTH_SHORT).show();

        }

        else {

            Toast.makeText(this, "item3", Toast.LENGTH_SHORT).show();

        }

        return true;

    }

}

```

menu.xml

```

<?xml version="1.0" encoding="utf-8"?>

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

</menu>

```

submenu.xml

```

<?xml version="1.0" encoding="utf-8"?>

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

```

```
<item
    android:id="@+id/item1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:title="Item" />
```

```
<item
    android:id="@+id/item2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:title="Item" />
```

```
<item
    android:id="@+id/item3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:title="Item" />
```

```
</menu>
```

themes.xml

```
<resources xmlns:tools="http://schemas.android.com/tools">

    <!-- Base application theme. -->

    <style name="Base.Theme.OptionMenu" parent="Theme.MaterialComponents.DayNight.DarkActionBar">

        <!-- Customize your light theme here. -->

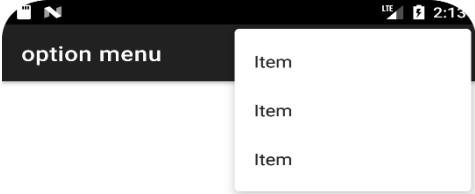
        <!-- <item name="colorPrimary">@color/my_light_primary</item> -->

    </style>

    <style name="Theme.OptionMenu" parent="Base.Theme.OptionMenu" />

</resources>
```


OUTPUT



Hello World!

Hello World!



Hello World!

item1



Program No:12

Date:7/11/2024

DATABASE CREATION

AIM

Create database using SQLite and perform insert ,select,update and delete on SQLite database.

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

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

    xmlns:app="http://schemas.android.com/apk/res-auto"

    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    tools:context=".MainActivity">

    <LinearLayout

        android:layout_width="match_parent"

        android:layout_height="match_parent"

        android:orientation="vertical">

        <TextView

            android:id="@+id/textView"

            android:layout_width="match_parent"

            android:layout_height="wrap_content"

            android:text="EMPLOYEE DETAILS"

            android:textAlignment="center"

            android:textColor="@color/design_default_color_error" />

        <EditText

            android:id="@+id/ET_id"

            android:layout_width="match_parent"

            android:layout_height="wrap_content"

            android:ems="10"

            android:hint="ID"

            android:inputType="textPersonName" />
```

```
<EditText
    android:id="@+id/ET_name"
    android:layout_width="match_parent"
    android:layout_height="57dp"
    android:ems="10"
    android:hint="Name"
    android:inputType="textPersonName" />
```

```
<EditText
    android:id="@+id/ET_place"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Place"
    android:inputType="textPersonName" />
```

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

```
<Button
    android:id="@+id/B_sel"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Select" />
```

```
<Button
    android:id="@+id/B_update"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="UPDATE" />
```

```
<Button
    android:id="@+id/B_delete"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
```

```
        android:text="DELETE" />
<Button
    android:id="@+id/B_clear"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="CLEAR" />
<TextView
    android:id="@+id/T_id"
    android:layout_width="match_parent"
    android:layout_height="46dp" />
<TextView
    android:id="@+id/T_name"
    android:layout_width="match_parent"
    android:layout_height="55dp" />
<TextView
    android:id="@+id/T_place"
    android:layout_width="match_parent"
    android:layout_height="47dp" />
</LinearLayout>
</LinearLayout>
```

MainActivity.java

```
package com.example.employee;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
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;
import java.util.ArrayList;
```

```

public class MainActivity extends AppCompatActivity {

    EditText ename,eplace,eid;

    Button bsubmit,bsel,bup,bdel,bclr;

    TextView tid,tname,tplace;

    SQLiteDatabase db;

    AlertDialog.Builder builder;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        ename      =(EditText) findViewById(R.id.ET_name);
        eplace      =(EditText) findViewById(R.id.ET_place);
        eid =(EditText)findViewById(R.id.ET_id);

        bsubmit     =(Button) findViewById(R.id.B_SUBMIT);
        bsel         =(Button) findViewById(R.id.B_sel);
        tid =(TextView) findViewById(R.id.T_id);
        tname        =(TextView) findViewById(R.id.T_name);
        tplace        =(TextView) findViewById(R.id.T_place);
        bup          =(Button) findViewById(R.id.B_update);
        bdel          =(Button)findViewById(R.id.B_delete);
        bclr          =(Button)findViewById(R.id.B_clear);
        builder      = new AlertDialog.Builder(this);

        try{

            db = openOrCreateDatabase("empdb", MODE_PRIVATE, null);

            db.execSQL("Create table employee(id integer primary key,name Text,place Text)");

            Toast.makeText(getApplicationContext(), "Created Successfully", Toast.LENGTH_SHORT).show();

        }

        catch(Exception e)

        {

        }

        bsubmit.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

```

```

try {

    db.execSQL("Insert into employee values
("+eid.getText().toString()+","+ename.getText().toString()+","+eplace.getText().toString()+")");

    Toast.makeText(getApplicationContext(), "Record Inserted Successfully",
Toast.LENGTH_SHORT).show();

}

catch (Exception e) {

    Toast.makeText(getApplicationContext(), "Error in Data", Toast.LENGTH_SHORT).show();

}

}

});

bclr.callOnClick();

bsel.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        Cursor c = db.rawQuery("select * from employee ", null);

        if (c.getCount() == 0) {

            Toast.makeText(getApplicationContext(), "No such record", Toast.LENGTH_SHORT).show();

        } else {

/*    c.moveToFirst();

    tid.setText(c.getString(0));

    tname.setText(c.getString(1));

    tplace.setText(c.getString(2));

*/

        StringBuffer b = new StringBuffer();

        while (c.moveToNext()) {

            b.append("Id:" + c.getString(0) + "\n");

            b.append("Name:" + c.getString(1) + "\n");

            b.append("Place:" + c.getString(2) + "\n");

            // on below line we are creating a new array list.

        }

        Toast.makeText(getApplicationContext(), b.toString(), Toast.LENGTH_LONG).show();

```

```

        builder.setMessage(b.toString());

        AlertDialog alert = builder.create();

        alert.setTitle("Employee Data");

        alert.show();

    }

}

});

bup.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        db.execSQL("update employee set
name='"+ename.getText().toString()+"',place='"+eplace.getText().toString()+"' where
id='"+eid.getText().toString()+"");

        Toast.makeText(getApplicationContext(), "updated....", Toast.LENGTH_SHORT).show();

    }

});

bde.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        db.execSQL("delete from employee where id='"+eid.getText().toString());

        Toast.makeText(getApplicationContext(), "Item Deleted", Toast.LENGTH_SHORT).show();

    }

});

bclr.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

        eid.setText("");

        ename.setText("");

        eplace.setText("");

    }

});

bclr.callOnClick();

}}

```

OUTPUT

