Program No:10

Date:8/08/2024

APPLICATION USING INTENT

AIM

Implement intend to navigate between multiple activities

activity_main.xml

```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">
```

```xml
    <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"
```

```xml
        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"
```

```xml
            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"
```

```xml
        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

```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;
```

```java
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);

        }

    };
```

```java
    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
<?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

```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);


    }

}
```
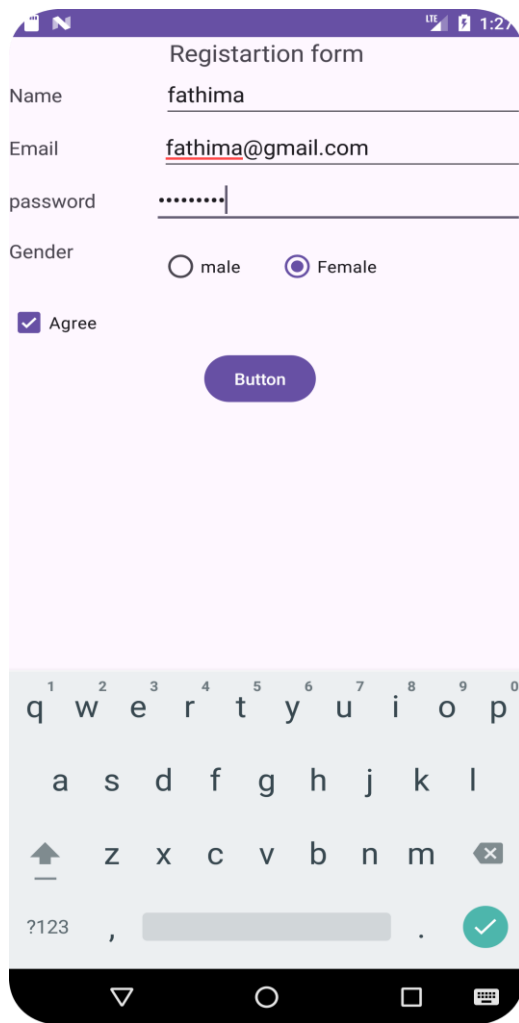
OUTPUT

Registartion form
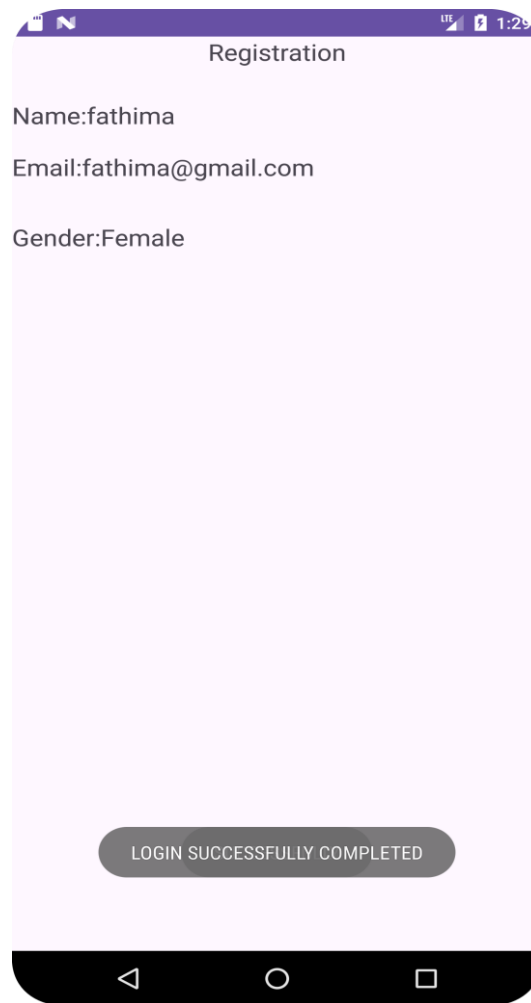
Name   fathima

Email   fathima@gmail.com

password   ••••••••

Gender   ○ male   ◉ Female

☑ Agree

Button

Registration

Name:fathima

Email:fathima@gmail.com

Gender:Female

LOGIN SUCCESSFULLY COMPLETED

Program No:11

Date:8/08/2024

LISTVIEW

AIM

Develop an application that uses Array adaptor with list view

activity_main.xml

```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

```java
package com.example.listview;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
ListView lv;
String[] s={"Mon","Tue","Wed"};
```

```java
    @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
<?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>
```

Mon
Tue
Wed

Mon
Tue
Wed

Mon

Mon
Tue
Wed

Program No:12

Date:8/08/2024

OPTIONS MENU

AIM

Develop an application to implement an options menu

activity_main.xml

```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

```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;
```

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

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

</menu>
```

submenu.xml

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

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

```

```xml
    <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

```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>
```
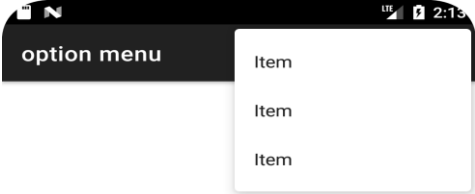
OUTPUT

option menu ⋮

Hello World!

◁ ○ □

option menu

Item

Item

Item

Hello World!

◁ ○ □

option menu ⋮

Hello World!

item1

◁ ○ □

Program No:13

Date:8/08/2024

OPTIONS MENU

AIM

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

activity_main.xml

```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" />
```

```xml
<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"
```

```xml
                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

```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;
```

```java
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) {
```

```java
        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();
```

```java
            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();

      }

    });

    bdel.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