SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SIT4402 - MOBILE APPLICATION DEVELOPMENT LAB

NAME : **YEAR : IV**

REG. NO : **SECTION : D**

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Name:
Register No:

Ex. No. 1 Date:	ANDROID APPLICATION LIFE CYCLE

Aim:

To implement android application life cycle methods.

Algorithm:

1. Open Eclipse for Android developers.
2. Select the file menu→Create new Android Application Project.
3. Write the Java code in MAinActivity.java.
4. Import the packages for the android development of life cycle
5. We can use the methods like
    a. onStart()
    b. onRestart()
    c. onResume()
    d. onStop()
    e. onPause()
    f. onRestart()
    g. onDestroy()
6. Use the private function Toast for the popup duration and context.

Java Code:

```
packagecom.example.androidlifecycle;

importandroid.os.Bundle;
importandroid.app.Activity;
importandroid.view.Menu;
importandroid.widget.Toast;
```

Name:
Register No:

```
public class MainActivity extends Activity {

   @Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
Toast.makeText(getApplicationContext(), "I am create method",
Toast.LENGTH_LONG).show();
   }

   @Override
protected void onStart() {
        // TODO Auto-generated method stub
        super.onStart();
        Toast.makeText(getApplicationContext(), "I am start method",
Toast.LENGTH_LONG).show();
   }

   @Override
protected void onResume() {
        // TODO Auto-generated method stub
        super.onResume();
        Toast.makeText(getApplicationContext(), "I am resume method",
Toast.LENGTH_LONG).show();
   }

   @Override
protected void onStop() {
        // TODO Auto-generated method stub
        super.onStop();
        Toast.makeText(getApplicationContext(), "I am stop method",
Toast.LENGTH_LONG).show();
   }

   @Override
protected void onPause() {
        // TODO Auto-generated method stub
        super.onPause();
        Toast.makeText(getApplicationContext(), "I am pause method",
Toast.LENGTH_LONG).show();
   }

   @Override
protected void onRestart() {
        // TODO Auto-generated method stub
        super.onRestart();
        Toast.makeText(getApplicationContext(), "I am restart method",
Toast.LENGTH_LONG).show();
   }
```

Name:
Register No:

```
    @Override
protected void onDestroy() {
        // TODO Auto-generated method stub
        super.onDestroy();
        Toast.makeText(getApplicationContext(), "I am destroy method",
Toast.LENGTH_LONG).show();
    }


}
```

Result:

Hence the application for the development of android activity life cycle has been successfully developed.

Name:
Register No:

Ex. No. 2 **Date:**	**CALCULATOR APPLICATION**

Aim:

To implement simple calculator application using android.

Algorithm:

1. Start the process.
2. Import the necessary packages for implementing calculator.
3. Design the XML page layout with two editTexts and four Buttons to perform the following operations.
    a. Addition
    b. Subtraction
    c. Multiplication
    d. Division
4. Run the application using AVD (Android Virtual Device) Manager.
5. Stop the process.

Java Code:

```
packagecom.example.addition;

importandroid.os.Bundle;
importandroid.app.Activity;
importandroid.view.Menu;
importandroid.view.View;
importandroid.view.View.OnClickListener;
importandroid.widget.Button;
importandroid.widget.EditText;
importandroid.widget.Toast;

publicclassMainActivityextends Activity {
```

Name:
Register No:

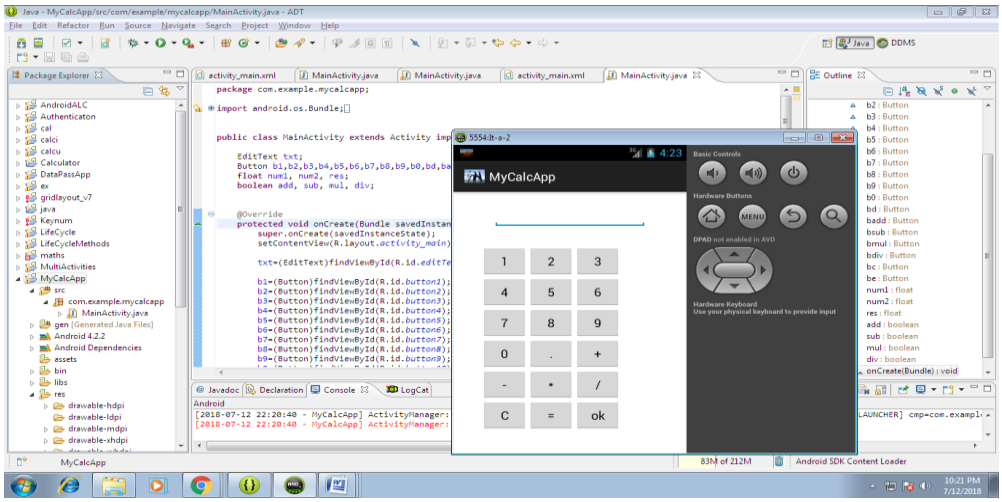
```
        privateEditTextedittext1,edittext2;
        private Button Btn_Add ;
        private Button Btn_Sub ;
        private Button Btn_Mul ;
        private Button Btn_Div ;


        @Override
        protectedvoidonCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_main);
                addListenerOnButton();
        }
        publicvoidaddListenerOnButton(){
edittext1=(EditText)findViewById(R.id.editText1);
edittext2=(EditText)findViewById(R.id.editText2);
Btn_Add=(Button)findViewById(R.id.button1);
Btn_Sub=(Button)findViewById(R.id.button2);
Btn_Mul=(Button)findViewById(R.id.button3);
Btn_Div=(Button)findViewById(R.id.button4);


Btn_Add.setOnClickListener(newOnClickListener(){

@Override
publicvoidonClick(View view) {
                String value1=edittext1.getText().toString();
                String value2=edittext2.getText().toString();
int a=Integer.parseInt(value1);
int b=Integer.parseInt(value2);
int sum=a+b;
Toast.makeText(getApplicationContext(),String.valueOf(sum),Toast.LENGTH_LONG
).show();
           }

      });
Btn_Sub.setOnClickListener(newOnClickListener(){

@Override
publicvoidonClick(View view) {
                  String value1=edittext1.getText().toString();
                  String value2=edittext2.getText().toString();
int a=Integer.parseInt(value1);
int b=Integer.parseInt(value2);
int sub=a-b;
Toast.makeText(getApplicationContext(),String.valueOf(sub),Toast.LENGTH_LONG
).show();
                }
      });
```

Name:
Register No:

```
Btn_Mul.setOnClickListener(newOnClickListener(){

@Override
publicvoidonClick(View view) {
                String value1=edittext1.getText().toString();
                String value2=edittext2.getText().toString();
int a=Integer.parseInt(value1);
int b=Integer.parseInt(value2);
int m=a*b;
Toast.makeText(getApplicationContext(),String.valueOf(m),Toast.LENGTH_LONG).
show();
            }

         });
Btn_Div.setOnClickListener(newOnClickListener(){

@Override
publicvoidonClick(View view) {
                String value1=edittext1.getText().toString();
                String value2=edittext2.getText().toString();
int a=Integer.parseInt(value1);
int b=Integer.parseInt(value2);
int n=a/b;
Toast.makeText(getApplicationContext(),String.valueOf(n),Toast.LENGTH_LONG).s
how();
            }

         });
   }
        @Override
        publicbooleanonCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.main, menu);
                returntrue;
        }

}
```

Name:
Register No:

Output:



Result:

Hence the application for the development of simple calculator has been successfully developed.

Name:
Register No:

Ex. No. 3 Date:	SMS APPLICATION

Aim:

To implement simple SMS application using android.

Algorithm:

1. Start the process.
2. Import the necessary packages for sending and receiving messages for implementing SMS application.
3. We can use the methods like
    a. SMS Manager Button
    b. SMS Send to Button
    c. SMS View Button
4. Use the try and catch exceptions for the handling any errors.
5. Run the code in the eclipse IDE.
6. Stop the process.

Java Code:

```
packagecom.example.sendsmstest;

importandroid.os.Bundle;
importandroid.app.Activity;
importandroid.content.Intent;

importandroid.net.Uri;

importandroid.view.Menu;
importandroid.telephony.SmsManager;
importandroid.view.View;
importandroid.view.View.OnClickListener;
importandroid.widget.Button;
importandroid.widget.EditText;
```

Name:
Register No:

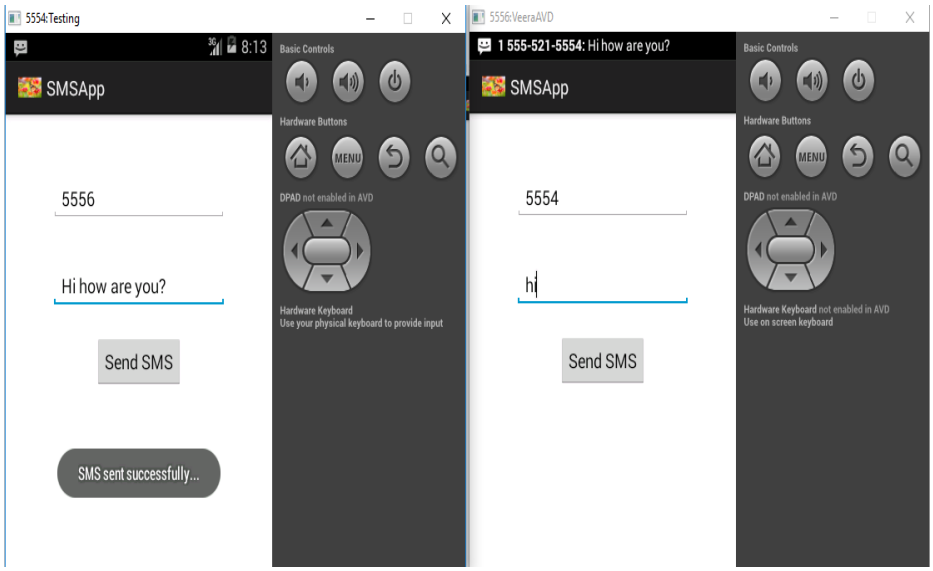
```
importandroid.widget.Toast;


publicclassMainActivityextends Activity {
        privateEditTextphoneNumber;

        privateEditTextsmsBody;

        private Button smsManagerBtn;

        private Button smsSendToBtn;

        private Button smsViewBtn;

        @Override
        protectedvoidonCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_main);
                phoneNumber = (EditText) findViewById(R.id.editText1);
                smsBody = (EditText) findViewById(R.id.editText2);
                smsManagerBtn = (Button) findViewById(R.id.button1);
                smsSendToBtn = (Button) findViewById(R.id.button2);
                smsViewBtn = (Button) findViewById(R.id.button3);

                smsManagerBtn.setOnClickListener(newOnClickListener() {
                        publicvoidonClick(View view) {

                        sendSmsByManager();

                                }

                        });

                        smsSendToBtn.setOnClickListener(newOnClickListener() {
                                publicvoidonClick(View view) {
                        sendSmsBySIntent();

                                }

                        });

                        smsViewBtn.setOnClickListener(newOnClickListener() {

                        publicvoidonClick(View view) {

                        sendSmsByVIntent();

                                }

                        });
```

```
        }

publicvoidsendSmsByManager() {

try {

// Get the default instance of the SmsManager

SmsManagersmsManager = SmsManager.getDefault();

smsManager.sendTextMessage(phoneNumber.getText().toString(),

null,

smsBody.getText().toString(),

null,

null);

Toast.makeText(getApplicationContext(), "Your sms has successfully sent!",

Toast.LENGTH_LONG).show();

      } catch (Exception ex) {

Toast.makeText(getApplicationContext(),"Your sms has failed...",

Toast.LENGTH_LONG).show();

ex.printStackTrace();

      }

   }


publicvoidsendSmsBySIntent() {

// add the phone number in the data

      Uri uri = Uri.parse("smsto:" + phoneNumber.getText().toString());
      Intent smsSIntent = newIntent(Intent.ACTION_SENDTO, uri);

// add the message at the sms_body extra field

smsSIntent.putExtra("sms_body", smsBody.getText().toString());
```

```
try{

startActivity(smsSIntent);

      } catch (Exception ex) {

Toast.makeText(MainActivity.this, "Your sms has failed...",

Toast.LENGTH_LONG).show();

ex.printStackTrace();

      }

   }
publicvoidsendSmsByVIntent() {
      Intent smsVIntent = newIntent(Intent.ACTION_VIEW);

// prompts only sms-mms clients

smsVIntent.setType("vnd.android-dir/mms-sms");

// extra fields for number and message respectively

smsVIntent.putExtra("address", phoneNumber.getText().toString());

smsVIntent.putExtra("sms_body", smsBody.getText().toString());

try{

startActivity(smsVIntent);

      } catch (Exception ex) {

Toast.makeText(MainActivity.this, "Your sms has failed...",

Toast.LENGTH_LONG).show();

ex.printStackTrace();

      }


   }


        @Override
        publicbooleanonCreateOptionsMenu(Menu menu) {
              // Inflate the menu; this adds items to the action bar if it is present.
              getMenuInflater().inflate(R.menu.main, menu);
```

```
            returntrue;
        }

}
```

Output:



Result:

Hence the application for the development of SMS Application has been successfully developed.

Name:
Register No:

Ex. No. 4 **Date:**	**PASSWORD VALIDATION APPLICATION**

Aim:

To implement authentication and verification (Password Validation) application using android.

Algorithm:

1. Start the process.
2. Write the java code in MainActivity.java
3. Get the user name and password form the user.
4. Validate the login from the code.
5. And authenticate the user.
6. Run the code in the eclipse IDE.
7. Stop the process.

Java Code:

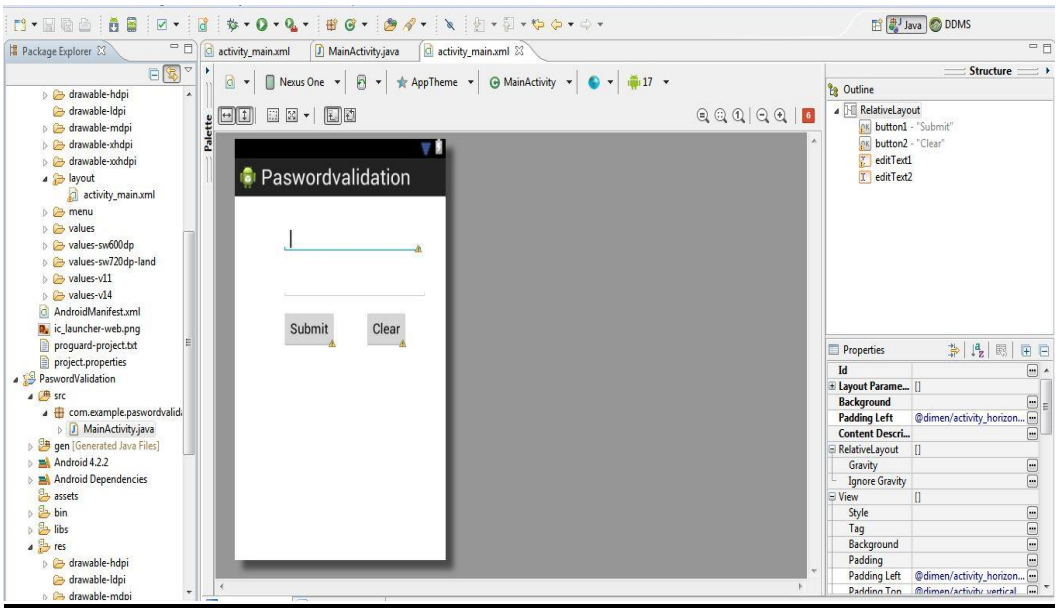
```
packagecom.example.password;

importandroid.os.Bundle;
importandroid.app.Activity;
importandroid.view.View;
importandroid.widget.Button;
importandroid.widget.EditText;
importandroid.widget.Toast;

public class MainActivity extends Activity {

        EditTextuname, pass;
        Button blog, bclear;

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

Name:
Register No:

```
uname=(EditText)findViewById(R.id.editText1);
pass=(EditText)findViewById(R.id.editText2);
blog=(Button)findViewById(R.id.button1);
bclear=(Button)findViewById(R.id.button2);

blog.setOnClickListener(new View.OnClickListener() {

                @Override
                public void onClick(View arg0) {
                        // TODO Auto-generated method stub

                        String na=uname.getText().toString();
                        String p=pass.getText().toString();
                        if(na.equals("admin") &&p.equals("admin"))
                                Toast.makeText(getApplicationContext(),
"Authenticated...", Toast.LENGTH_LONG).show();
                        else
                        {
                                Toast.makeText(getApplicationContext(), "Un
Authenticated...", Toast.LENGTH_LONG).show();
                                uname.setText("");
                                pass.setText("");
                        }

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

                @Override
                public void onClick(View arg0) {
                        // TODO Auto-generated method stub

                        uname.setText("");
                        pass.setText("");
                }
        });


   }

}
```

Name:
Register No:

Output:



Result:

Hence the application for the verification and authenciatation (password validation) has been successfully developed.

Name:
Register No:

Ex. No. 5 **Date:**	**APPLICATION WITH MULTIPLE ACTIVITIES**

Aim:

To implement navigate application with multiple activities using android.

Algorithm:

1. Start the process.
2. Write the java code for password validation in MainActivity.java. Let it be the first activity.
3. Create the SecondActivity.java file which need to be connected with first activity.
4. We navigate from first activity to second activity after authentication.
5. Run the code in the eclipse IDE.
6. Stop the process.

Java Code:

MainActivity.java

```
packagecom.example.multiplepagesapp;

importandroid.os.Bundle;

importandroid.app.Activity;

importandroid.content.Intent;

importandroid.view.Menu;

importandroid.view.View;

importandroid.widget.Button;


public class MainActivity extends Activity {
```

Name:
Register No:

```
        Intent in;
        Button b1;

    @Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

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

b1.setOnClickListener(new View.OnClickListener() {

                    @Override
                    public void onClick(View arg0) {
                        // TODO Auto-generated method stub

                        in = new Intent(MainActivity.this, SeconActivity.class);

                        startActivity(in);
                    }
                });
}
}
```

SecondActivity.java

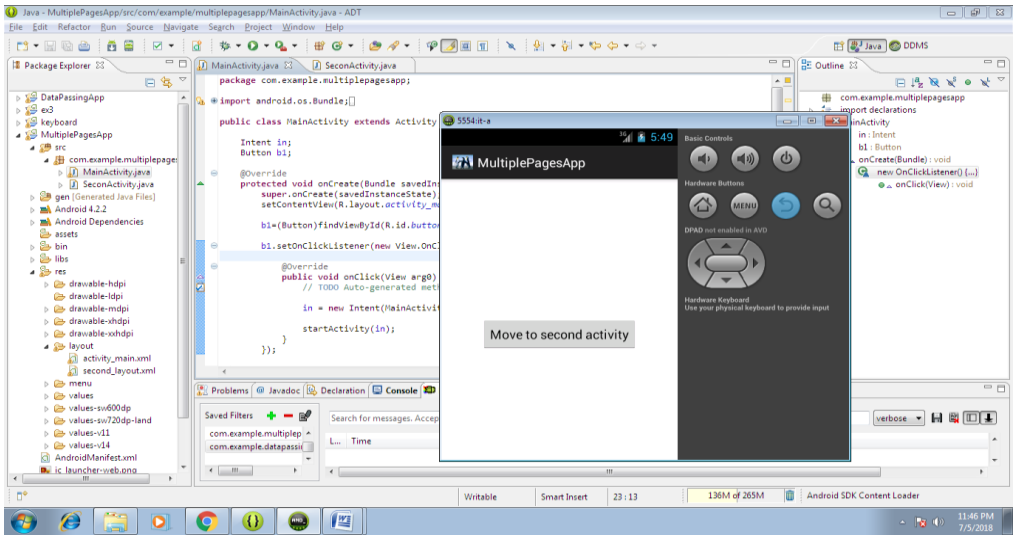
```
packagecom.example.multiplepagesapp;
importandroid.app.Activity;
```

Name:
Register No:

```
import android.os.Bundle;
public class SeconActivity extends Activity {
        @Override
        protected void onCreate(Bundle savedInstanceState) {
                // TODO Auto-generated method stub
                super.onCreate(savedInstanceState);
                setContentView(R.layout.second_layout);
        }
}
```

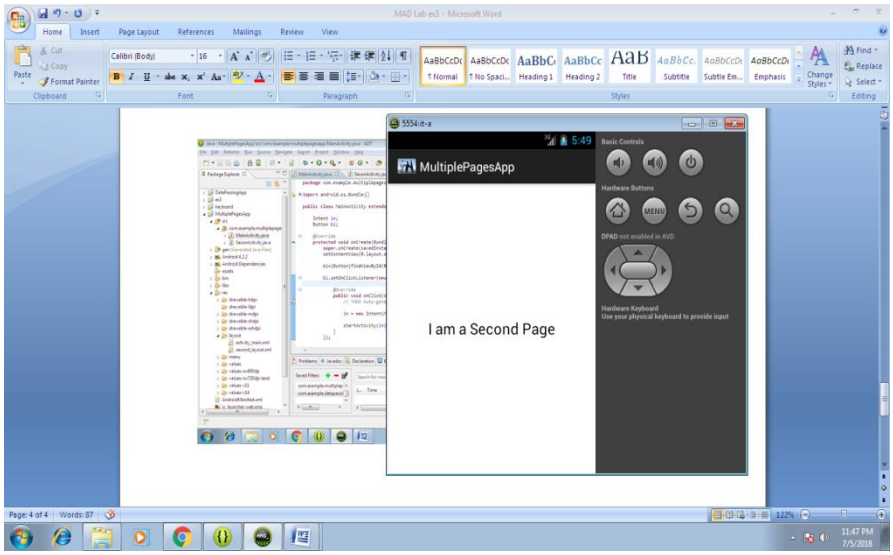
Output:

Firstactivity



Secondactivity

Name:
Register No:



Result:

Hence the application for navigation of multiple activities has been successfully executed and verified.

Name:
Register No:

Ex. No. 6 **Date:**	**DATA (PARAMETER) PASSING APPLICATION**

Aim:

To implement a simple data(parameter) passing application using android.

Algorithm:

1. Start the process.
2. Write the java code for password validation in MainActivity.java. Let it be the first activity.
3. Create the SecondActivity.java file which needs to be connected with first activity.
4. We navigate from first activity to second activity after authentication.
5. The user name “admin” will be transferred from first activity to second activity by using putExtra() method and data will be received in second activity by getStringExtra().
6. Run the code in the eclipse IDE.
7. Stop the process.

Java Code:

MainActivity.java

```
package com.example.parameter;

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

public class MainActivity extends Activity {
```

Name:
Register No:

```
    EditText uname, pass;
    Button blog, bclear;
    Intent in;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    uname=(EditText)findViewById(R.id.editText1);
    pass=(EditText)findViewById(R.id.editText2);
    blog=(Button)findViewById(R.id.button1);
    bclear=(Button)findViewById(R.id.button2);

    blog.setOnClickListener(new View.OnClickListener() {

                @Override
                public void onClick(View arg0) {
                    // TODO Auto-generated method stub

                    String na=uname.getText().toString();
                    String p=pass.getText().toString();
                    if(na.equals("admin") && p.equals("admin"))
                    {
                        Toast.makeText(getApplicationContext(),
"Authenticated...", Toast.LENGTH_LONG).show();
                        in=new
Intent(getApplicationContext(),SecondActivity.class);
                        in.putExtra("myName", na);
                        startActivity(in);
                    }
                    else
                    {
                        Toast.makeText(getApplicationContext(), "Un
Authenticated...", Toast.LENGTH_LONG).show();
                        uname.setText("");
                        pass.setText("");
                    }

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

                @Override
                public void onClick(View arg0) {
                    // TODO Auto-generated method stub

                    uname.setText("");
                    pass.setText("");
```

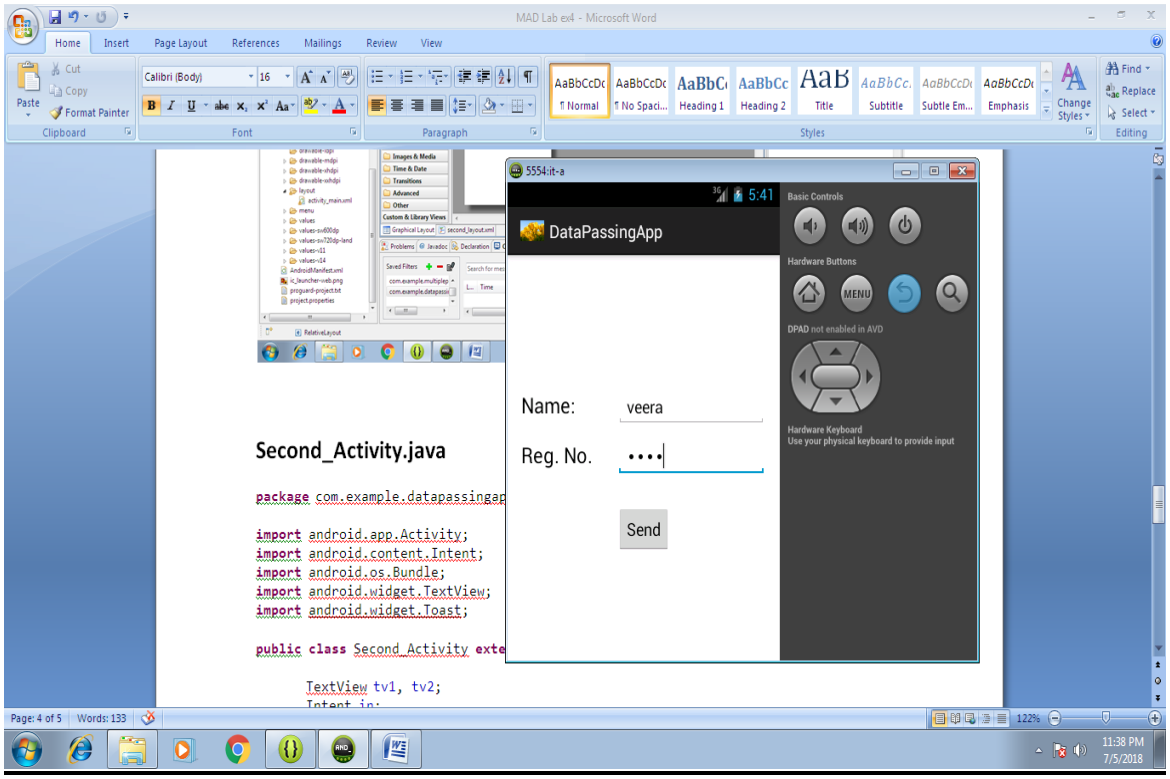
```
                }
        });


    }

}
```

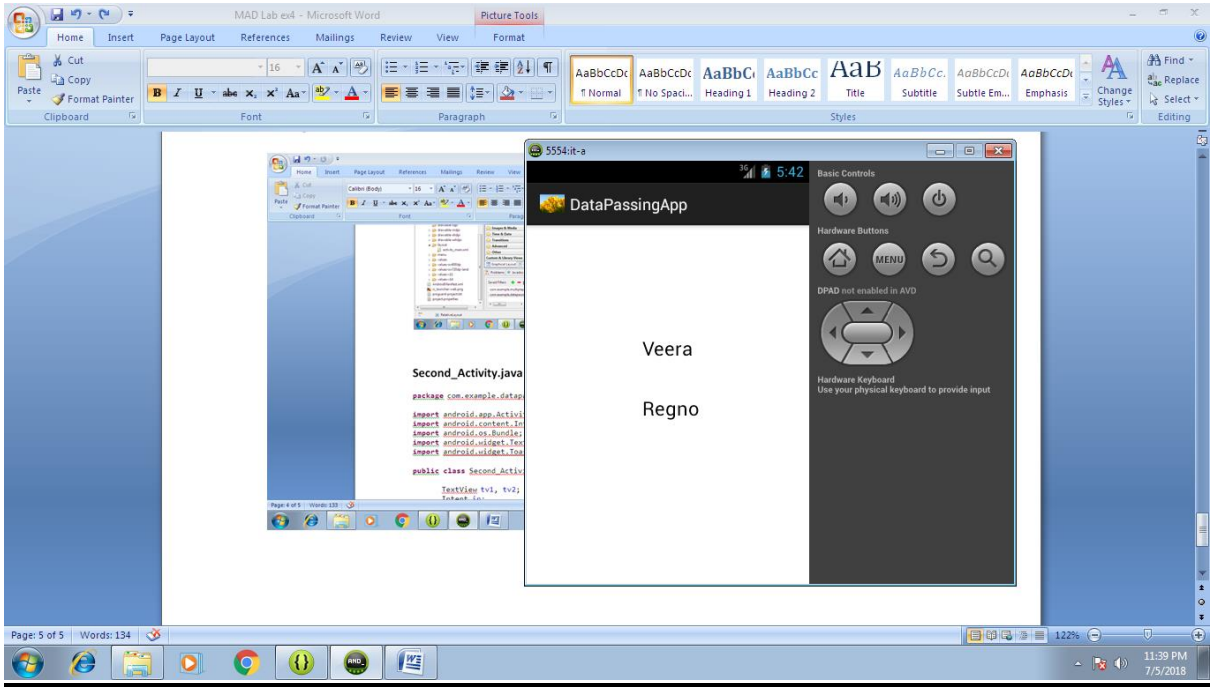
Second Activity.java

```
package com.example.parameter;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
import android.widget.Toast;


public class SecondActivity extends Activity {

        TextView tv;
        String na;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
                // TODO Auto-generated method stub
                super.onCreate(savedInstanceState);
                setContentView(R.layout.second_activity);

                tv=(TextView)findViewById(R.id.textView2);

                Intent in=getIntent();

                na=in.getStringExtra("myName");

                tv.setText("welcome"+" \t"+na);


        }
```

Name:
Register No:

Output:





Result:

Hence the application for passing data as parameters has been successfully executed and verified.

Name:
Register No:

Ex. No. 7 **Date:**	**SIMPLE NOTIFICATION APPLICATION**

Aim:

To implement a simple notification application using android.

Algorithm:

1. Start the process.
2. Create a java file in eclipse and import all the android packages.
3. Use the protected for the development of the function.
4. Use the button component to specify a notification.
5. Once the button is clicked the notification will be generated.
6. Run the code in the eclipse IDE.
7. Stop the process.

Java Code:

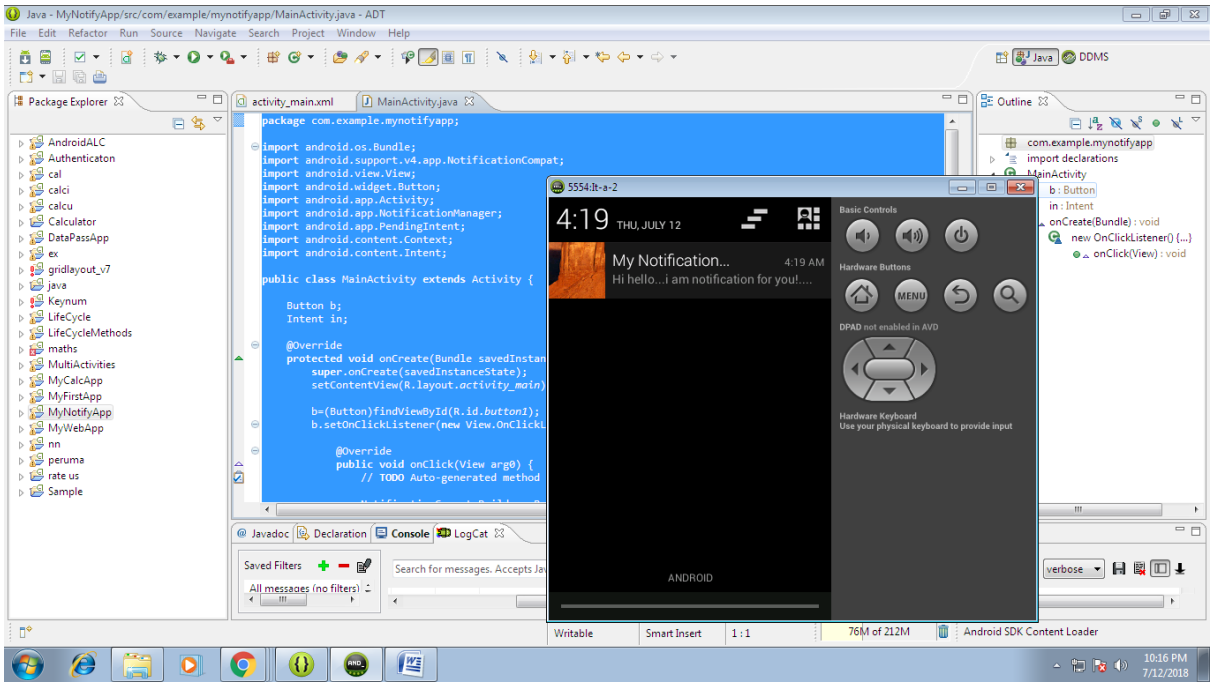
```
package com.example.notifi;

import android.os.Bundle;
import android.app.Activity;
import android.app.NotificationManager;
import android.content.Context;
import android.support.v4.app.NotificationCompat;
import android.view.Menu;
import android.view.View;


public class MainActivity extends Activity {

	@Override

	protected void onCreate(Bundle savedInstanceState) {

		super.onCreate(savedInstanceState);
```

Name:
Register No:

```
        setContentView(R.layout.activity_main);
    }

    public void sendNotification(View view) {

  //Get an instance of NotificationManager//

  NotificationCompat.Builder mBuilder =  new NotificationCompat.Builder(this)
     .setSmallIcon(R.drawable.ic_launcher)
     .setContentTitle("My notification")
     .setContentText("Hello World!");
  // Gets an instance of the NotificationManager service//
  NotificationManager mNotificationManager =
(NotificationManager)getSystemService(Context.NOTIFICATION_SERVICE);
 // NotificationManager.notify().
  mNotificationManager.notify(001, mBuilder.build());
    }
}
```

Name:
Register No:

Output:



Result:

Hence the application for notification application has been successfully executed and verified.

Name:
Register No:

Ex. No. 8 Date:	STUDENT REGISTRATION FORM USING SQLITE DB

Aim:

To implement student placement registration form with database (sqlite) using android.

Algorithm:

1. Start the process.
2. Create a java file in eclipse and import all the android packages.
3. Create the 3 button and 2 text edit.
4. Create insert, check and clear functions for the implementation.
5. And also check the credentials in the data base.
6. Run the code in the eclipse IDE.
7. Stop the process.

Java Code:

MainActivity.java

```
package com.example.placementapp;

import android.os.Bundle;
import android.app.Activity;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Spinner;
import android.widget.Toast;

public class MainActivity extends Activity implements OnClickListener,
OnItemSelectedListener{
```

Name:
Register No:

```
        EditTexttxt1, txt2, txt3, txt4, txt5;
        Button b1, b2;

        RadioGrouprg;
        RadioButtonr;

        Spinner sp;

        String dept;
@Override
protectedvoidonCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

txt1=(EditText)findViewById(R.id.txtRegNo);
txt2=(EditText)findViewById(R.id.txtName);
txt3=(EditText)findViewById(R.id.txt10th);
txt4=(EditText)findViewById(R.id.txt12th);
txt5=(EditText)findViewById(R.id.txtug);

b1=(Button)findViewById(R.id.btnSubmit);
b2=(Button)findViewById(R.id.btnClear);

b1.setOnClickListener(this);
b2.setOnClickListener(this);

rg=(RadioGroup)findViewById(R.id.radioGroup);

sp=(Spinner)findViewById(R.id.sprDepts);
sp.setOnItemSelectedListener(this);

   }

        @Override
        publicvoidonClick(View arg0) {
                // TODO Auto-generated method stub
                DatabaseHandlerdb = newDatabaseHandler(this);

                switch(arg0.getId())
                {
                caseR.id.btnSubmit:
                        intreg=Integer.parseInt(txt1.getText().toString());
                        String n=txt2.getText().toString();
                        int rid=rg.getCheckedRadioButtonId();
                        r=(RadioButton)findViewById(rid);
                        String gen=r.getText().toString();
                        //department
                        float ten=Float.parseFloat(txt3.getText().toString());
                        floattwele=Float.parseFloat(txt4.getText().toString());
```

```
                    floatug=Float.parseFloat(txt5.getText().toString());
                    //Toast.makeText(getApplicationContext(), "The Values are:\n
Reg.no:"+reg+"\nName:"+n+"\nGender:"+gen+"\nDepartment:"+dept+"\n10Tth
Mark:"+ten+"\n12th Mark:"+twele+"\nUG Mark:"+ug, Toast.LENGTH_LONG).show();
                    db.insertEntry(reg, n, gen, dept, ten, twele, ug);
                    Toast.makeText(getApplicationContext(), "Record inserted
successfully...", Toast.LENGTH_LONG).show();
                    txt1.setText("");
                    txt2.setText("");
                    txt3.setText("");
                    txt4.setText("");
                    txt5.setText("");
                    break;
                caseR.id.btnClear:
                    txt1.setText("");
                    txt2.setText("");
                    txt3.setText("");
                    txt4.setText("");
                    txt5.setText("");
                    break;

                }
        }

        @Override
        publicvoidonItemSelected(AdapterView<?> arg0, View arg1, int arg2,
                    long arg3) {
                // TODO Auto-generated method stub
                dept=sp.getSelectedItem().toString();
        }

        @Override
        publicvoidonNothingSelected(AdapterView<?> arg0) {
                // TODO Auto-generated method stub

        }

}
```

DatabaseHandler.java

```
packagecom.example.placementapp;

importandroid.content.ContentValues;
importandroid.content.Context;
importandroid.database.sqlite.SQLiteDatabase;
importandroid.database.sqlite.SQLiteOpenHelper;

publicclassDatabaseHandlerextendsSQLiteOpenHelper{
```

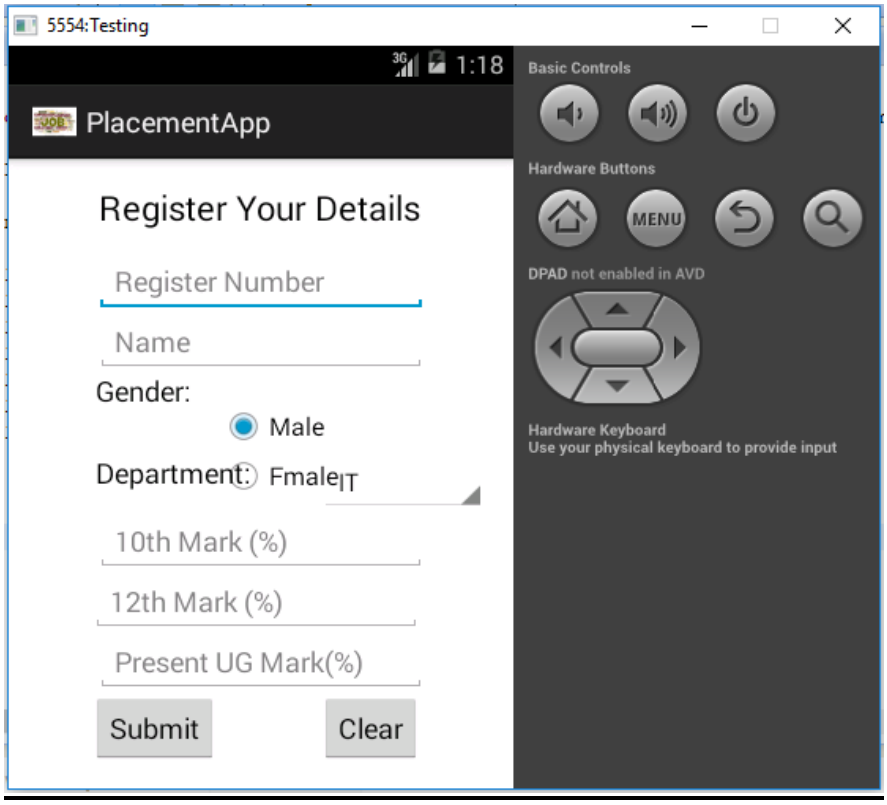
Name:
Register No:

```
        privatestaticfinalintDATABASE_VERSION = 1;

        privatestaticfinal String DATABASE_NAME = "Placement";

        privatestaticfinal String TABLE_DETAILS = "detail";

        privatestaticfinal String KEY_ID = "regno";
privatestaticfinal String KEY_NAME = "name";
privatestaticfinal String KEY_GENDER = "gender";
privatestaticfinal String KEY_DEPT = "dept";
privatestaticfinal String KEY_10TH = "tenthmark";
privatestaticfinal String KEY_12TH = "twlvethmark";
privatestaticfinal String KEY_UG = "ugmark";



        publicDatabaseHandler(Context context) {
                super(context, DATABASE_NAME, null, DATABASE_VERSION);
                // TODO Auto-generated constructor stub
        }

        @Override
        publicvoidonCreate(SQLiteDatabasedb) {
                // TODO Auto-generated method stub
                String cQuery="CREATE TABLE " + TABLE_DETAILS + "(" + KEY_ID
+ " INTEGER PRIMARY KEY, " + KEY_NAME + " TEXT, " + KEY_GENDER + "
TEXT, "+ KEY_DEPT + " TEXT, " + KEY_10TH +" REAL, " + KEY_12TH + " REAL, "
+ KEY_UG + " REAL " + ");";

                db.execSQL(cQuery);
        }

        @Override
        publicvoidonUpgrade(SQLiteDatabasedb, int arg1, int arg2) {
                // TODO Auto-generated method stub
                db.execSQL("DROP TABLE IF EXISTS " + TABLE_DETAILS);
                onCreate(db);
        }

publicvoidinsertEntry(intreg, String nam, String gen, String dept, floattenmark,
floattwlemark, floatugmark){

                SQLiteDatabasedb = this.getWritableDatabase();

ContentValues values = newContentValues();

values.put(KEY_ID, reg); // Dept ID
values.put(KEY_NAME, nam); // Dept Name
values.put(KEY_GENDER, gen);
```

Name:
Register No:

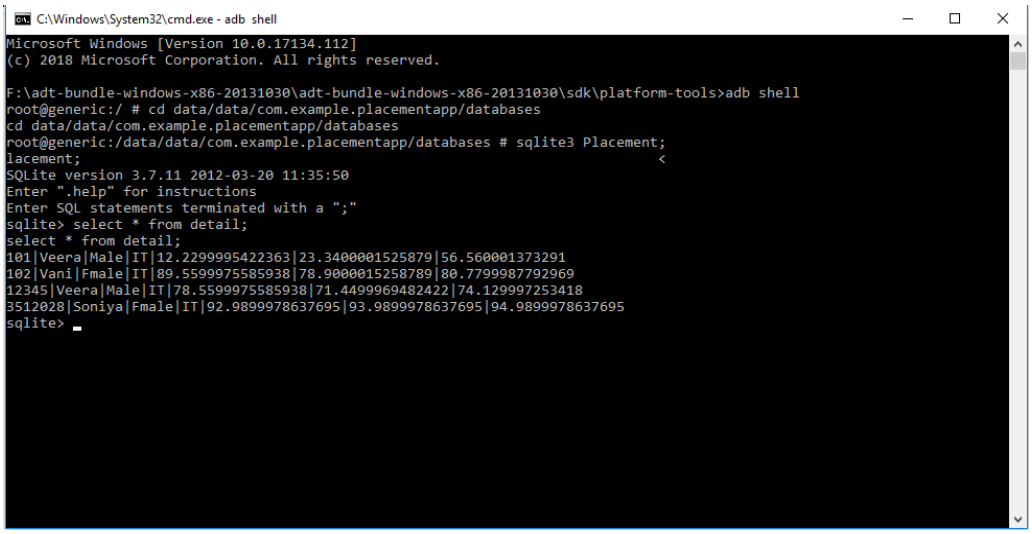
```
values.put(KEY_DEPT, dept);
values.put(KEY_10TH, tenmark);
values.put(KEY_12TH, twlemark);
values.put(KEY_UG, ugmark);

// Inserting Row
db.insert(TABLE_DETAILS, null, values);

db.close(); // Closing database connection
        }
}
```

Output:



Name:
Register No:

Database:



Result:

Hence the form for placement registration has been successfully executed and verified.

Name:
Register No:

Ex. No. 9 **Date:**	**WEB BROWSER APPLICATION**

Aim:

To create mobile web browser (web view) application using android.

Algorithm:

1. Start the process.
2. Create a java file in eclipse and import all the android packages.
3. Extend the main function with activity.
4. Create the button and text edit.
5. Enter the web site url in the text box and click the button.
6. Then the page will be redirected to the required web page.
7. Run the code in the eclipse IDE.
8. Stop the process.

Java Code:

```
packagecom.example.mywebapp;

importandroid.os.Bundle;

importandroid.view.View;

importandroid.webkit.WebSettings;

importandroid.webkit.WebView;

importandroid.webkit.WebViewClient;

importandroid.widget.Button;

importandroid.widget.EditText;

importandroid.app.Activity;
```

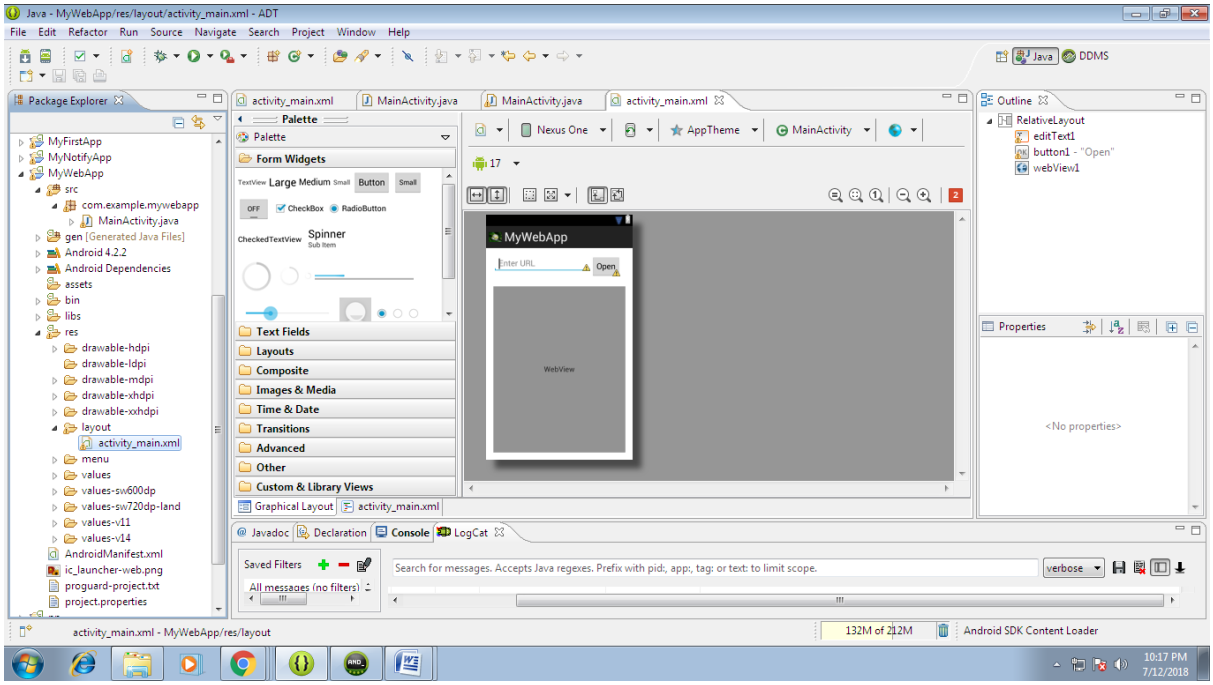
Name:
Register No:

```
public class MainActivity extends Activity {


        EditTexttxturl;
        Button b;
        WebViewwv;
        privateWebSettingsgetString;


        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_main);


                txturl=(EditText)findViewById(R.id.editText1);
                b=(Button)findViewById(R.id.button1);
                wv=(WebView)findViewById(R.id.webView1);
                //WebSettingswebSettings = wv.getSettings();
      //webSettings.setJavaScriptEnabled(true);
b.setOnClickListener(new View.OnClickListener() {


                        @Override
                        public void onClick(View arg0) {
                                // TODO Auto-generated method stub


                                wv.setWebViewClient(new WebViewClient());
                                wv.loadUrl("http://"+txturl.getText().toString());
                        }
                });
```

Name:
Register No:

```
    }
}
```

Output:



Result:

Hence the application for web view has been successfully executed and verified.

Name:
Register No:

Ex. No. 10 Date:	E-MAIL APPLICATION

Aim:

To create email application and send mail using android.

Algorithm:

1. Start the process.
2. Create a java file in eclipse and import all the android packages.
3. Create the 1 button and 3 text edit.
4. Use the variables txtTo, txtSub and txtMsg.
5. Write the email and send the content to the specified person.
6. Run the code in the eclipse IDE.
7. Stop the process.

Java Code:

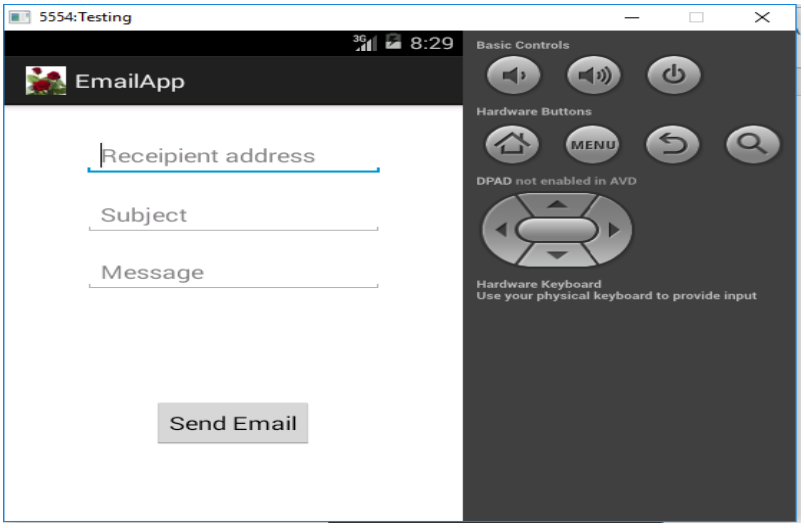
```
packagecom.example.emailapp;

importandroid.os.Bundle;
importandroid.view.View;
importandroid.widget.Button;
importandroid.widget.EditText;
importandroid.app.Activity;
importandroid.content.Intent;

publicclassMainActivityextends Activity {

        EditTexttxtTo, txtSub, txtMsg;
        Button b;
        String strTo, strSub, strMsg;
        Intent in;

@Override
protectedvoidonCreate(Bundle savedInstanceState) {
```

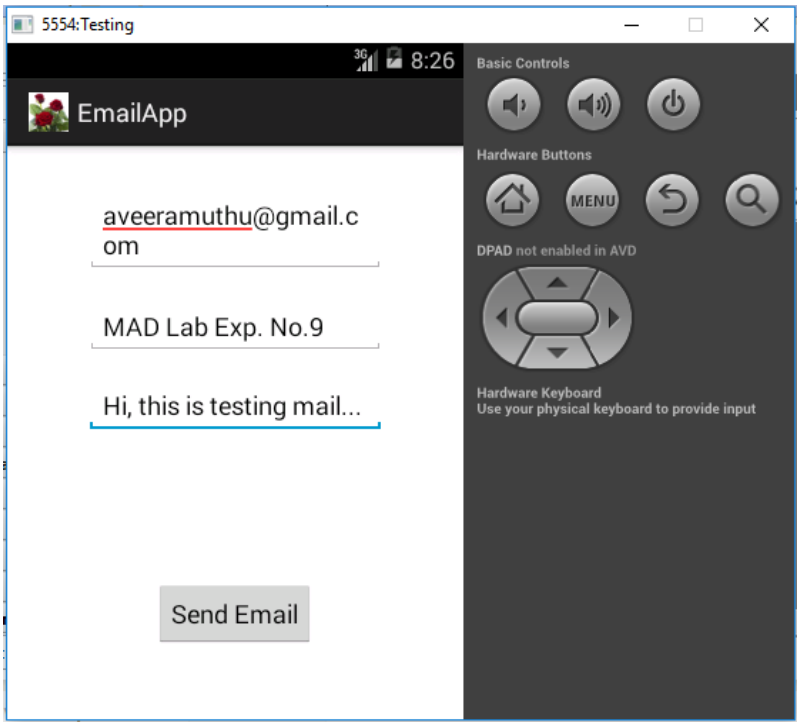
Name:
Register No:

```
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

txtTo=(EditText)findViewById(R.id.editText1);
txtSub=(EditText)findViewById(R.id.editText2);
txtMsg=(EditText)findViewById(R.id.editText3);

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

b.setOnClickListener(newView.OnClickListener() {

                @Override
                publicvoidonClick(View arg0) {
                        // TODO Auto-generated method stub

                        strTo=txtTo.getText().toString();
                        strSub=txtSub.getText().toString();
                        strMsg=txtMsg.getText().toString();

                        in=new Intent(Intent.ACTION_SEND);

                        //in.putExtra(Intent.EXTRA_EMAIL, new String[]{strTo});
                        in.putExtra(Intent.EXTRA_EMAIL, strTo);
                        in.putExtra(Intent.EXTRA_SUBJECT, strSub);
                        in.putExtra(Intent.EXTRA_TEXT, strMsg);

                        in.setType("message/rfc822");

                        startActivity(Intent.createChooser(in, "Choose an email
client..."));

                }
        });

   }


}
```

Output:

Name:
Register No:





Result:

Hence the application for sending email has been successfully executed and verified.