

EXPERIMENT NO:6

AIM:

Develop an android mobile application that displays date and time on a Button click in text boxes.

SOURCE CODE:

activity_main.xml

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

<RelativeLayout 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">

    <Button

        android:id="@+id/button"

        android:layout_width="300dp"

        android:layout_height="75dp"

        android:layout_marginLeft="50dp"

        android:layout_marginTop="500dp"

        android:text="Date-Time"
```

```
    android:backgroundTint="@color/teal_200"
```

```
</>
```

```
<TextView
```

```
    android:id="@+id/textview1"
```

```
    android:layout_width="300dp"
```

```
    android:layout_height="50dp"
```

```
    android:text="date"
```

```
    android:textSize="30dp"
```

```
    android:layout_marginLeft="50dp"
```

```
    android:layout_marginTop="100dp"
```

```
    android:textColor="@color/white"
```

```
</>
```

```
<TextView
```

```
    android:id="@+id/textview2"
```

```
    android:layout_width="300dp"
```

```
    android:layout_height="50dp"
```

```
    android:text="time"
```

```
    android:textSize="30dp"
```

```
    android:layout_marginLeft="50dp"
```

```
    android:layout_marginTop="150dp"
```

```
    android:textColor="@color/white"
```

```
</>
```

```
</RelativeLayout>
```

MainActivity.java

```
package com.example.lab6;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

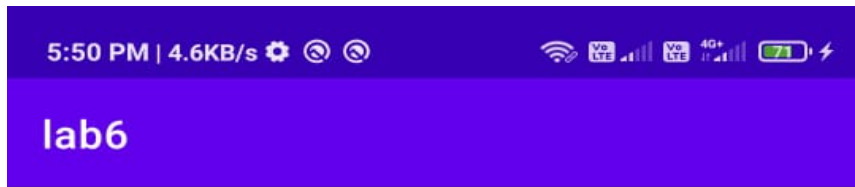
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Calendar;

public class MainActivity extends AppCompatActivity {
    Button button;
    TextView dt, tym;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button button = findViewById(R.id.button);
        TextView dt= findViewById(R.id.textview1);
        TextView tym= findViewById(R.id.textview2);

        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Calendar calendar = Calendar.getInstance();
                DateFormat d = new SimpleDateFormat("dd/MM/yyyy");
                DateFormat t = new SimpleDateFormat("hh:mm");
                String date= d.format(calendar.getTime());
                String time = t.format(calendar.getTime());
                dt.setText(date);
                tym.setText(time);
            }
        });
    }
}
```

OUTPUT:



date
time

DATE-TIME

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lab6

09/02/2022

05:50

DATE-TIME

EXPERIMENT NO:7

AIM:

Develop an android mobile application to demonstrate activity life cycle

SOURCE CODE:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:background="@color/teal_200"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/btnActTwo"
        android:layout_width="300dp"
        android:layout_height="75dp"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="200dp"
        android:text="BEGIN"

    />
</RelativeLayout>
```

MainActivity.java

```
package com.example.lab7;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;

public class MainActivity extends Activity implements OnClickListener {

    final String TAG = "States";

    Button btnActTwo;
```

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

    btnActTwo = (Button) findViewById(R.id.btnActTwo);
    btnActTwo.setOnClickListener(this);

    Log.d(TAG, "MainActivity: onCreate()");
}

@Override
protected void onRestart() {
    super.onRestart();
    Log.d(TAG, "MainActivity: onRestart()");
}

@Override
protected void onStart() {
    super.onStart();
    Log.d(TAG, "MainActivity: onStart()");
}

@Override
protected void onResume() {
    super.onResume();
    Log.d(TAG, "MainActivity: onResume()");
}

@Override
protected void onPause() {
    super.onPause();
    Log.d(TAG, "MainActivity: onPause()");
}

@Override
protected void onStop() {
    super.onStop();
    Log.d(TAG, "MainActivity: onStop()");
}

@Override
protected void onDestroy() {
    super.onDestroy();
    Log.d(TAG, "MainActivity: onDestroy()");
}

@Override
public void onClick(View v) {
    Intent intent = new Intent(this, ActivityTwo.class);
    startActivity(intent);
}
}
```

activity_two.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:background="@color/teal_200"
    tools:context=".ActivityTwo">
    <TextView
        android:layout_width="300dp"
        android:layout_height="100dp"
        android:layout_marginTop="200dp"
        android:layout_marginLeft="50dp"
        android:text="ActivityTwo"
        android:textSize="20dp"
    />
</RelativeLayout>
```

ActivityTwo.java

```
package com.example.mad7;

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

public class ActivityTwo extends Activity {

    final String TAG = "States";

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_two);
        Log.d(TAG, "ActivityTwo: onCreate()");
    }

    @Override
    protected void onRestart() {
        super.onRestart();
        Log.d(TAG, "ActivityTwo: onRestart()");
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d(TAG, "ActivityTwo: onStart()");
    }

    @Override
```



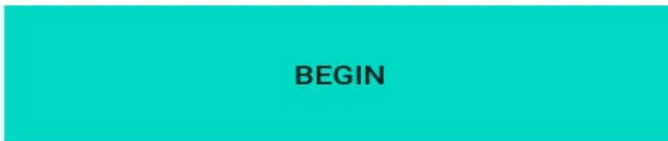
```
protected void onResume() {
    super.onResume();
    Log.d(TAG, "ActivityTwo: onResume()");
}

@Override
protected void onPause() {
    super.onPause();
    Log.d(TAG, "ActivityTwo: onPause()");
}

@Override
protected void onStop() {
    super.onStop();
    Log.d(TAG, "ActivityTwo: onStop()");
}

@Override
protected void onDestroy() {
    super.onDestroy();
    Log.d(TAG, "ActivityTwo: onDestroy()");
}
}
```

OUTPUT:



2022-02-01 19:43:40.392 11253-11253/com.example.mad7 W/om.example.mad: Accessing hidden method Landroid/os/Trace;->asyncTraceEnd(JLjava/lang/String;)V (light greylist, 2022-02-01 19:43:40.392 11253-11253/com.example.mad7 W/om.example.mad: Accessing hidden method Landroid/os/Trace;->traceCounter(JLjava/lang/String;)V (light greylist, 2022-02-01 19:43:40.432 11253-11382/com.example.mad7 W/om.example.mad: Accessing hidden method Landroid/graphics/FontFamily;-><init>()V (light greylist, 2022-02-01 19:43:40.432 11253-11382/com.example.mad7 W/om.example.mad: Accessing hidden method Landroid/graphics/FontFamily;->addFontFromAssetManager(Landroid/content/res/AssetManager;Landroid/graphics/FontFamily;Landroid/content/res/Asset;Landroid/graphics/FontFamily\$FontStyle;)V (light greylist, 2022-02-01 19:43:40.432 11253-11382/com.example.mad7 W/om.example.mad: Accessing hidden method Landroid/graphics/FontFamily;->addFontFromBuffer(Ljava/nio/ByteBuffer;Landroid/graphics/FontFamily;Landroid/content/res/Asset;Landroid/graphics/FontFamily\$FontStyle;)V (light greylist, 2022-02-01 19:43:40.432 11253-11382/com.example.mad7 W/om.example.mad: Accessing hidden method Landroid/graphics/FontFamily;->abortCreation()V (light greylist, 2022-02-01 19:43:40.433 11253-11382/com.example.mad7 W/om.example.mad: Accessing hidden method Landroid/graphics/Typeface;->createFromFamiliesWithDefault(Landroid/graphics/Typeface;Landroid/graphics/Typeface;Landroid/content/res/Asset;Landroid/graphics/Typeface\$FontStyle;)V (light greylist, 2022-02-01 19:43:43.998 11253-11253/com.example.mad7 I/Timeline: Timeline: Activity_launch_request time:351978323 2022-02-01 19:43:44.040 11253-11253/com.example.mad7 D/States: MainActivity: onPause() 2022-02-01 19:43:44.056 11253-11253/com.example.mad7 W/ActivityThread: handleWindowVisibility: no activity for token android.os.BinderProxy@4e7b83c 2022-02-01 19:43:44.073 11253-11253/com.example.mad7 D/States: ActivityTwo: onCreate() 2022-02-01 19:43:44.078 11253-11253/com.example.mad7 D/States: ActivityTwo: onStart() 2022-02-01 19:43:44.079 11253-11253/com.example.mad7 D/States: ActivityTwo: onResume() 2022-02-01 19:43:44.563 11253-11253/com.example.mad7 D/States: MainActivity: onStop() 2022-02-01 19:43:47.732 11253-11281/com.example.mad7 I/om.example.mad: ProcessProfilingInfo new_methods=345 is saved saved_to_disk=1 resolve_classes_delay=8000 2022-02-01 19:43:54.520 11253-11253/com.example.mad7 D/States: ActivityTwo: onPause() 2022-02-01 19:43:54.541 11253-11253/com.example.mad7 D/States: MainActivity: onRestart() 2022-02-01 19:43:54.542 11253-11253/com.example.mad7 D/States: MainActivity: onStart() 2022-02-01 19:43:54.544 11253-11253/com.example.mad7 D/States: MainActivity: onResume() 2022-02-01 19:43:54.969 11253-11253/com.example.mad7 D/States: ActivityTwo: onStop() 2022-02-01 19:43:54.978 11253-11253/com.example.mad7 D/States: ActivityTwo: onDestroy()

Logcat

Event Log Layout Inspector

EXPERIMENT NO:8

AIM:

Develop an android mobile application that uses Intents.

SOURCE CODE:

activity_main

```
<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"
    tools:context=".MainActivity">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Explicit Intent Example"
        android:id="@+id/explicit_intent"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="147dp" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Implicit Intent Example"
        android:id="@+id/implicit_intent"
        android:layout_centerVertical="true"
        android:layout_centerHorizontal="true" />

</RelativeLayout>
```

MainActivity.java

```
package com.example.lab8;

import android.content.Intent;
import android.net.Uri;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;
```

```

public class MainActivity extends AppCompatActivity {

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

        explicit_btn = (Button)findViewById(R.id.explicit_Intent);
        implicit_btn = (Button) findViewById(R.id.implicit_Intent);

        explicit_btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                Intent intent = new Intent(getBaseContext(),
SecondActivity.class);
                startActivity(intent);

            }
        });

        implicit_btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                Intent intent = new Intent(Intent.ACTION_VIEW);
                intent.setData(Uri.parse("http://rit.ac.in/ritsoft/ritsoftv2/index.php"));
                startActivity(intent);

            }
        });

    }
}

```

activity_second

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:background="@color/teal_200"
    tools:context=".SecondActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="This is example of explicit intent"
        android:id="@+id/textView"
        android:layout_centerVertical="true"
        android:layout_centerHorizontal="true" />

```

```
</RelativeLayout>
```

activity_second.java

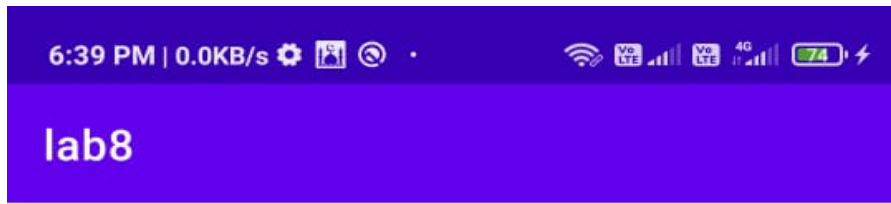
```
package com.example.lab8;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class SecondActivity extends AppCompatActivity {

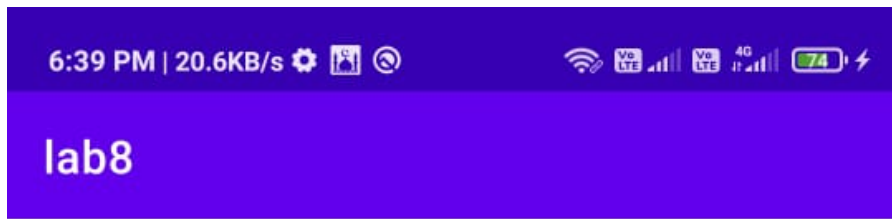
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
    }
}
```

OUTPUT:



EXPLICIT INTENT EXAMPLE

IMPLICIT INTENT EXAMPLE



This is example of explicit intent

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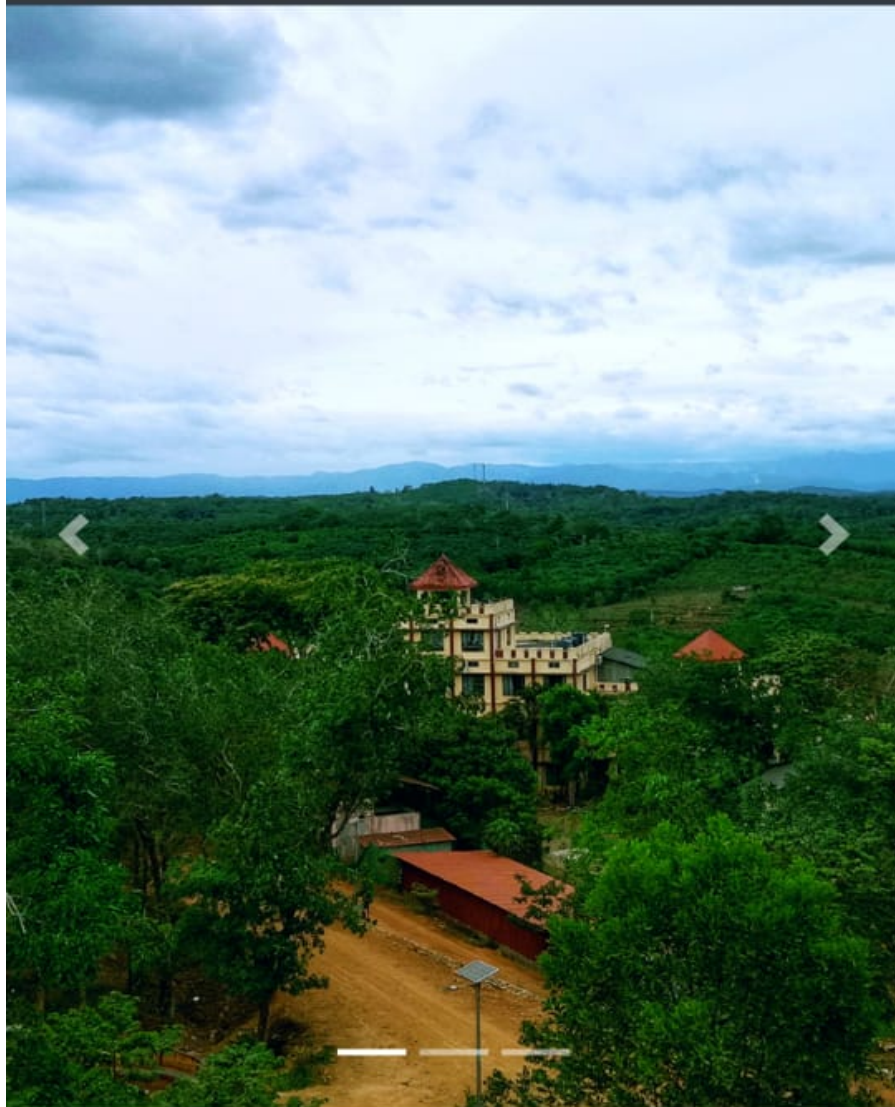


rit.ac.in/ritsoft/ritsoftv2/inde

27



RITSoft v2



Welcome to RIT



English

Malayalam



EXPERIMENT NO:9

AIM:

Develop an android mobile application that passes data using intent while navigating from first activity to another.

SOURCE CODE:

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

    <EditText
        android:id="@+id/send_text_id"
        android:layout_width="300dp"
        android:layout_height="wrap_content"
        android:textSize="25dp"
        android:hint="Input"
        android:textStyle="bold"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="40dp"/>
    <Button
        android:id="@+id/send_button_id"
        android:layout_width="wrap_content"
        android:layout_height="40dp"
        android:text="SUBMIT "
        android:layout_marginTop="150dp"
        android:layout_marginLeft="150dp"/>

</RelativeLayout>
```

MainActivity.java

```
import android.content.Intent;
import android.os.Bundle;

import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    Button send_button;
    EditText send_text;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        send_button = (Button)findViewById(R.id.send_button_id);
        send_text = (EditText)findViewById(R.id.send_text_id);
        send_button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v)
            {
                String str = send_text.getText().toString();
                Intent intent = new
Intent(getApplicationContext(), SecondActivity.class);
                intent.putExtra("message_key", str);
                startActivity(intent);
            }
        });
    }
}
```

activity_second.xml

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

    <TextView
        android:id="@+id/received_value_id"
        android:layout_width="300dp"
        android:layout_height="50dp"
        android:textStyle="bold"
        android:textSize="40dp"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="40dp"/></Relati
veLayout>
```

SecondActivity.java

```
package com.example.mad8;

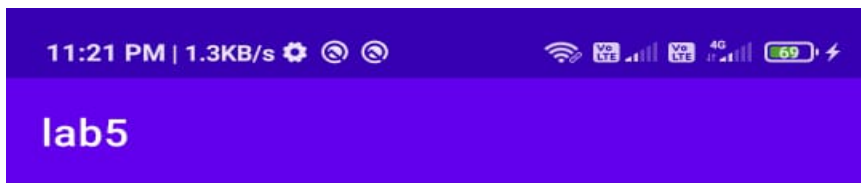
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {

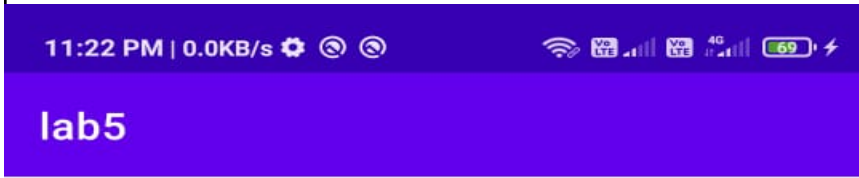
    TextView receiver_msg;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        receiver_msg = (TextView)findViewById(R.id.received_value_id);
        Intent intent = getIntent();
        String str = intent.getStringExtra("message_key");
        receiver_msg.setText(str);
    }
}
```

OUTPUT:



swali

SUBMIT



swali

EXPERIMENT NO:10

AIM:

Develop an android mobile application that opens the browser on a button click using Intents.

SOURCE CODE:

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:padding="8dp"
    tools:context=".MainActivity">
    <Button
        android:id="@+id/button"
        android:layout_width="300dp"
        android:layout_height="100dp"
        android:text="RIT SOFT "
        android:textColor="@color/white"
        android:backgroundTint="@color/teal_200"
        android:layout_centerInParent="true"/>
</RelativeLayout>
```

MainActivity.java

```
package com.example.mad10;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

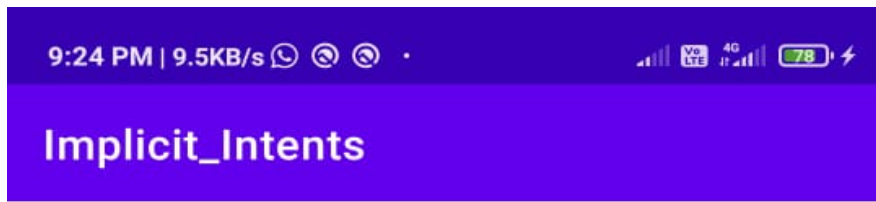
public class MainActivity extends AppCompatActivity {
    Button button;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        button = (Button) findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String url = "https://RIT/ RITSoftv2"
                Intent i = new Intent(Intent.ACTION_VIEW);
                i.setData(Uri.parse(url));
                startActivity(i);
            }
        });
    }
}
```


AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.intentpgm">
    <uses-permission android:name="android.permission.INTERNET"/>
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Intentpgm">
        <activity
            android:name=".SecondActivity"
            android:exported="false" />
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

OUTPUT:



RIT SOFT

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RITSoft v2



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English

Malayalam

