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## **EXPERIMENT 5 – WORKING WITH INTENT**

**AIM :** To design application using intent.

### **THEORY:**

Android Intent is the *message* that is passed between components such as activities, content providers, broadcast receivers, services etc.

It is generally used with startActivity() method to invoke activity, broadcast receivers etc.

### **Types of Intent**

#### **1) Implicit Intent**

Implicit Intent doesn't specify the component. In such case, intent provides information of available components provided by the system that is to be invoked.

For example, you may write the following code to view the webpage.

```
Intent intent=new Intent(Intent.ACTION_VIEW);  
intent.setData(Uri.parse("http://www.javatpoint.com"));  
startActivity(intent);
```

#### **2) Explicit Intent**

Explicit Intent specifies the component. In such case, intent provides the external class to be invoked.

Example:

```
Intent i = new Intent(getApplicationContext(), ActivityTwo.class);  
startActivity(i);
```

### **ASSIGNMENT**

1. Create an application with Button in it. On Click of the button the application should get directed to second activity.

### **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"
```

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```
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=" This Is My First Activity! "
    android:textSize="25sp"
    android:textStyle="bold"
    android:layout_marginTop="40dp"
    android:layout_centerHorizontal="true"
    android:id="@+id/textV1"
    />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="CLICK"
    android:textSize="25sp"
    android:textStyle="bold"
    android:layout_centerHorizontal="true"
    android:layout_below="@id/textV1"
    android:layout_marginTop="30dp"
    android:id="@+id/btn1"
    />
</RelativeLayout>
```

### MainActivity.java

package com.example.mca1634.intentapp;

```
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=(Button) findViewById(R.id.btn1);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent first=new Intent(MainActivity.this,Second.class);
                startActivity(first);
            }
        })
    }
}
```

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```
    });  
    }  
}
```

### activity\_second.xml

```
<?xml version="1.0" encoding="utf-8"?>  
  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    xmlns:tools="http://schemas.android.com/tools"  
    tools:context=".Second">  
    <TextView  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text="This is Second activity"  
        android:textStyle="bold"  
        android:textSize="35sp"  
        android:layout_centerHorizontal="true"  
        android:layout_marginTop="60dp"  
        android:id="@+id/textV2"  
    />  
</RelativeLayout>
```

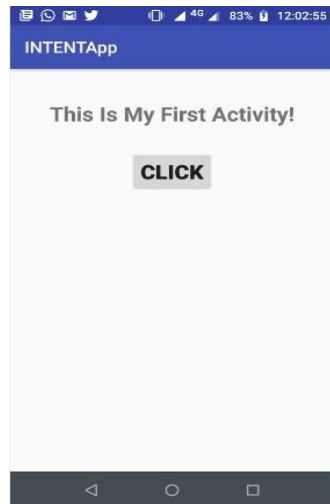
### SecondActivity.java

#### package com.example.mca1634.intentapp;

```
import android.os.Bundle;  
import android.support.annotation.Nullable;  
import android.support.v7.app.AppCompatActivity;  
import android.widget.EditText;  
public class Second extends AppCompatActivity {  
    @Override  
    protected void onCreate(@Nullable Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.second_activity);  
    }  
}
```

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**OUTPUT:**



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2. Create an application to pass text data from one first activity to second activity.

### **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">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=" Enter your Text "
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV1"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:hint=" Enter Text"
        android:layout_below="@id/textV1"
        android:layout_centerHorizontal="true"
        android:id="@+id/edit1"
        android:layout_marginTop="25dp"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SUBMIT"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/edit1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="25dp"
        android:id="@+id/btn1"
        android:onClick="click"
    />
</RelativeLayout>
```

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### MainActivity.java

#### package com.example.mca1634.intentappsecond;

```
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    EditText edit1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        edit1=(EditText)findViewById(R.id.edit1);
    }
    public void click(View V)
    {
        String Message=edit1.getText().toString();
        Intent first=new Intent(MainActivity.this,Second.class);
        first.putExtra("message",Message);
        startActivity(first);
    }
}
```

### activity\_second.xml

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

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:tools="http://schemas.android.com/tools"
    tools:context=".Second">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=" Result "
        android:textSize="35sp"
        android:textStyle="bold"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV2"
    />
    <EditText
```

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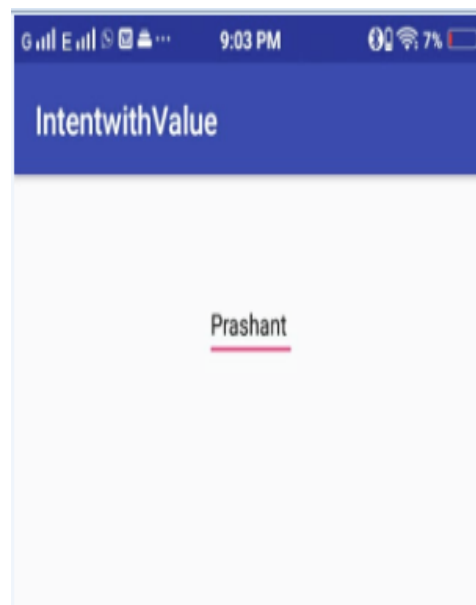
```
        android:layout_width="300dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:layout_below="@+id/textV2"
        android:layout_marginTop="30dp"
        android:id="@+id/edit2"
        android:layout_centerHorizontal="true"
    />
</RelativeLayout>
```

### SecondActivity.java

**package com.example.mca1634.intentappsecond;**

```
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.EditText;
public class Second extends AppCompatActivity {
    EditText edit2;
    String Output_message;
    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.second_activity);
        edit2=(EditText) findViewById(R.id.edit2);
        Output_message=getIntent().getExtras().getString("message");
        edit2.setText(Output_message);
    }
}
```

### OUTPUT:



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3. Create an application which gets the user details such as name, Mobile number and email address in one activity and display the details in the next activity.

### **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">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=" Enter your Text "
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV1"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:hint="          Name"
        android:layout_below="@id/textV1"
        android:layout_centerHorizontal="true"
        android:id="@+id/edit1"
        android:layout_marginTop="25dp"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:hint="          Mobile"
        android:layout_below="@id/edit1"
        android:layout_centerHorizontal="true"
        android:id="@+id/edit2"
        android:layout_marginTop="25dp"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
```



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```
        android:hint="                E-mail"
        android:layout_below="@id/edit2"
        android:layout_centerHorizontal="true"
        android:id="@+id/edit3"
        android:layout_marginTop="25dp"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SUBMIT"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/edit3"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="25dp"
        android:id="@+id/btn1"
        android:onClick="click"
    />
</RelativeLayout>
```

### MainActivity.java

```
package com.example.mca1634.registratoin intent;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    EditText edit1,edit2,edit3;
    Button btn1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        edit1=(EditText) findViewById(R.id.edit1);
        edit2=(EditText) findViewById(R.id.edit2);
        edit3=(EditText) findViewById(R.id.edit3);
        btn1=(Button) findViewById(R.id.btn1);
    }
    public void click(View V)
    {
        String Name=edit1.getText().toString();
        String Phone=edit2.getText().toString();
        String Email=edit3.getText().toString();
        Intent first=new Intent(MainActivity.this,Second.class);
        first.putExtra("name",Name);
        first.putExtra("phone",Phone);
```

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```
        first.putExtra("email",Email);
        startActivity(first);
    }
}
```

### activity\_second.xml

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:tools="http://schemas.android.com/tools"
    tools:context=".Second">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Result!"
        android:textSize="30sp"
        android:textStyle="bold"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV2"
        android:layout_marginTop="25dp"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:layout_centerHorizontal="true"
        android:layout_below="@id/textV2"
        android:id="@+id/edit4"
        android:layout_marginTop="25dp"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:layout_below="@id/edit4"
        android:layout_centerHorizontal="true"
        android:id="@+id/edit5"
        android:layout_marginTop="25dp"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:layout_below="@id/edit5"
        android:layout_centerHorizontal="true"
        android:id="@+id/edit6"
```

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```
        android:layout_marginTop="25dp"
    />
</RelativeLayout>
```

### SecondActivity.java

```
package com.example.mca1634.registratoin intent;

import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.EditText;
public class Second extends AppCompatActivity {
    EditText edit4,edit5,edit6;
    String Output_Name,Output_Phone,Output_Email;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.second_activity);
        edit4=(EditText) findViewById(R.id.edit4);
        edit5=(EditText) findViewById(R.id.edit5);
        edit6=(EditText) findViewById(R.id.edit6);
        Output_Name=getIntent().getExtras().getString("name");
        Output_Phone=getIntent().getExtras().getString("phone");
        Output_Email=getIntent().getExtras().getString("email");
        edit4.setText(Output_Name);
        edit5.setText(Output_Phone);
        edit6.setText(Output_Email);
    }
}
```

### OUTPUT:



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#### 4. To Demonstrate An Explicite Intent.

### 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">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=" Toast "
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV1"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_marginTop="30dp"
        android:layout_below="@id/textV1"
        android:layout_centerHorizontal="true"
        android:id="@+id/edit1"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SUBMIT"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/edit1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="25dp"
        android:id="@+id/btn1"
    />
</RelativeLayout>
```

#### MainActivity.java

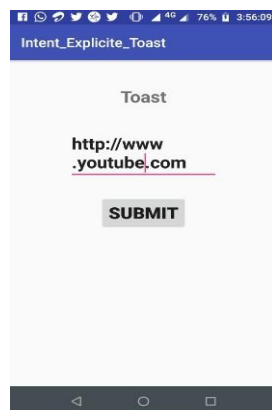
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```
package com.example.mca1634.intent.explicite.toast;

import android.content.Intent;
import android.net.Uri;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    EditText edit1;
    Button btn1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        edit1=(EditText) findViewById(R.id.edit1);
        btn1=(Button) findViewById(R.id.btn1);
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String url=edit1.getText().toString();
                Intent first=new Intent(Intent.ACTION_VIEW, Uri.parse(url));
                startActivity(first);
            }
        });
    }
}
```

## **OUTPUT:**



**CONCLUSION:** Successfully Executed Intent Applications.