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Sem/sec - 5 'C'
Subject - Mobile Application development
Subject code - TBC - 501

1. Develop an android application to demonstrate implicit as well as Explicit Intent.

Sol. - Implicit Intent:

activity - main.xml

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

```
<android.support.constraint.constraint.layout 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="example.google.com.implicitint"
```

```
<EditText
```

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

```
android:layout_width="wrap-content"
```

```
android:layout_height="wrap-content"
```

```
android:layout_margin="8dp"
```

```
android:layout_marginStart="8dp"
```


android:layout_marginTop = "60dp"

android:ems = "10"

app:layout_constraintEnd_toEndOf = "parent"

app:layout_constraintHorizontal_bias = "0.575"

app:layout_constraintStart_toStartOf = "parent"

app:layout_constraintTop_toTopOf = "parent"/>

< Button

android:id = "@+id/button"

android:layout_width = "wrap_content"

android:layout_height = "wrap_content"

android:layout_marginRight = "8dp"

android:layout_marginLeft = "156dp"

android:layout_marginTop = "179dp"

android:text = "Visit"

app:layout_constraintEnd_toEndOf = "parent"

app:layout_constraintHorizontal_bias = "0.0"

app:layout_constraintHorizontal_toStartOf = "parent"

app:layout_constraintTop_toBottomOf = "@+id/rec"

</android.support.constraint.ConstraintLayout>

Activity class:-

```
Package example.google.com.implicitintere;
```

```
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
```

```
{  
    Button button;
```

```
    EditText editText;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

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

```
        button = findViewById(R.id.button);
```

```
        editText = findViewById(R.id.editText);
```

```
        button.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View view) {
```

```
                String url = editText.getText().toString();
```

```
                Intent intent = new Intent(Intent.ACTION_VIEW,  
                    Uri.parse(url));
```

```
                startActivity(intent);
```

```
            }  
        }  
    }  
}
```

Defu

⇒ Explicit Intent:

Activity . main . xml file -

```
<?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="https://schemas.android.com/tools"
```

```
android:layout_width="match parent"
```

```
android:layout_height="match parent"
```

```
tools:context="," MainActivity"
```

```
android:padding="80dp">
```

```
<Button
```

```
android:id="@+id/b1"
```

```
android:layout_width="Wrap content"
```

```
android:layout_height="Wrap content"
```

```
android:layout_margin="50dp"
```

```
android:gravity="Center"
```

```
android:text="Activity" />
```

```
</RelativeLayout>
```

MainActivity . Java file:

```
package com.example.explicit intent;
```

```
import android . appcompat . app . AppCompatActivity;
```

```
import android . content . Intent;
```

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```

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

```

```

public class MainActivity extends AppCompatActivity {
    Button btn1;

```

② Override

```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);

```

```

    setContentView(R.layout.activity_main);

```

```

    btn1 = findViewById(R.id.btn1);

```

```

    btn1.setOnClickListener(new View.OnClickListener() {

```

③ Override

```

        public void onClick(View view) {

```

```

            Intent in = new

```

```

            Intent(getApplicationContext(), Activity2.class);

```

```

            startActivity(in);

```

```

        }
    }
}

```

➡ 2nd Activity . main . xml file :

```

<?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"

```

Done


```
xmlns:tools="http://schemas.android.com/tools"
android:layout width="match parent"
android:layout height="match parent"
tools:context="Activity2">
```

<TextView

```
android:id="@+id/textView"
android:layout width="wrap content"
android:layout height="wrap content"
android:text="Welcome to another
activity"
```

```
android:textSize="50dp"
android:textColor="@color/teal-700"
android:textStyle="bold"
android:padding="50dp"
android:gravity="center">
```

</RelativeLayout>

⇒ 2nd main Activity - Java file.

```
package com.example.explicit.intent;
```

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

```
public class Activity2 extends AppCompatActivity
```

```
@Override
```

```
protected void onCreate (Bundle savedInstanceState) {
    super.onCreate (savedInstanceState);
    setContentView (R.layout.activity_2);
}
```

Done