

Practical: 5

AIM- What is Intent? Write down types of Intent and types of Intent Action. Create an application which demonstrates implicit Intent for following features.

1. Make call to specific number 2. Open specific URL 3. Open Call Log 4. Open Gallery 5. Set Alarm 6. Open Camera

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Activity_main.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:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Web Url : "
        app:layout_constraintBaseline_toBaselineOf="@+id/editTextURL"
        app:layout_constraintEnd_toStartOf="@+id/editTextURL"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Phone no.: "
        app:layout_constraintBaseline_toBaselineOf="@+id/editTextText3"
        app:layout_constraintEnd_toStartOf="@+id/editTextText3"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent" />
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Call Log : "
        app:layout_constraintBaseline_toBaselineOf="@+id/button5"
        app:layout_constraintEnd_toStartOf="@+id/button5"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent" />
```

```
<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Camera : "
    app:layout_constraintBaseline_toBaselineOf="@+id/button8"
    app:layout_constraintEnd_toStartOf="@+id/button8"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Gallery : "
    app:layout_constraintBaseline_toBaselineOf="@+id/button7"
    app:layout_constraintEnd_toStartOf="@+id/button7"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent" />
```

```
<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Alarm : "
    app:layout_constraintBaseline_toBaselineOf="@+id/button9"
    app:layout_constraintEnd_toStartOf="@+id/button9"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toStartOf="parent" />
```

```
<EditText
    android:id="@+id/editTextURL"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="108dp"
    android:ems="10"
    android:inputType="text"
    app:layout_constraintEnd_toStartOf="@+id/button_browse"
    app:layout_constraintHorizontal_bias="0.5"
```

Practical: 5

```
app:layout_constraintStart_toEndOf="@+id/textView"
app:layout_constraintTop_toTopOf="parent" />
<Button
    android:id="@+id/button_browse"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Browse"
    app:layout_constraintBaseline_toBaselineOf="@+id/editTextURL"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/editTextURL" />
<EditText
    android:id="@+id/editTextText3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
    android:ems="10"
    android:inputType="text"
    app:layout_constraintEnd_toStartOf="@+id/buttoncall"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/textView2"
    app:layout_constraintTop_toBottomOf="@+id/editTextURL" />
<Button
    android:id="@+id/buttoncall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Call"
    app:layout_constraintBaseline_toBaselineOf="@+id/editTextText3"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/editTextText3" />
<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="225dp"
```

Practical: 5

```
android:layout_marginTop="20dp"
android:text="Call Log"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.5"
app:layout_constraintStart_toEndOf="@+id/textView3"
app:layout_constraintTop_toBottomOf="@+id/buttoncall" />
<Button
    android:id="@+id/button7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="225dp"
    android:layout_marginTop="20dp"
    android:text="Gallery"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/textView4"
    app:layout_constraintTop_toBottomOf="@+id/button5" />
<Button
    android:id="@+id/button8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="225dp"
    android:layout_marginTop="20dp"
    android:text="Camera"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/textView5"
    app:layout_constraintTop_toBottomOf="@+id/button7" />
<Button
    android:id="@+id/button9"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="225dp"
    android:layout_marginTop="20dp"
    android:text="Alarm"
    app:layout_constraintEnd_toEndOf="parent"
```

Practical: 5

```
app:layout_constraintHorizontal_bias="0.5"
app:layout_constraintStart_toEndOf="@+id/textView6"
app:layout_constraintTop_toBottomOf="@+id/button8" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

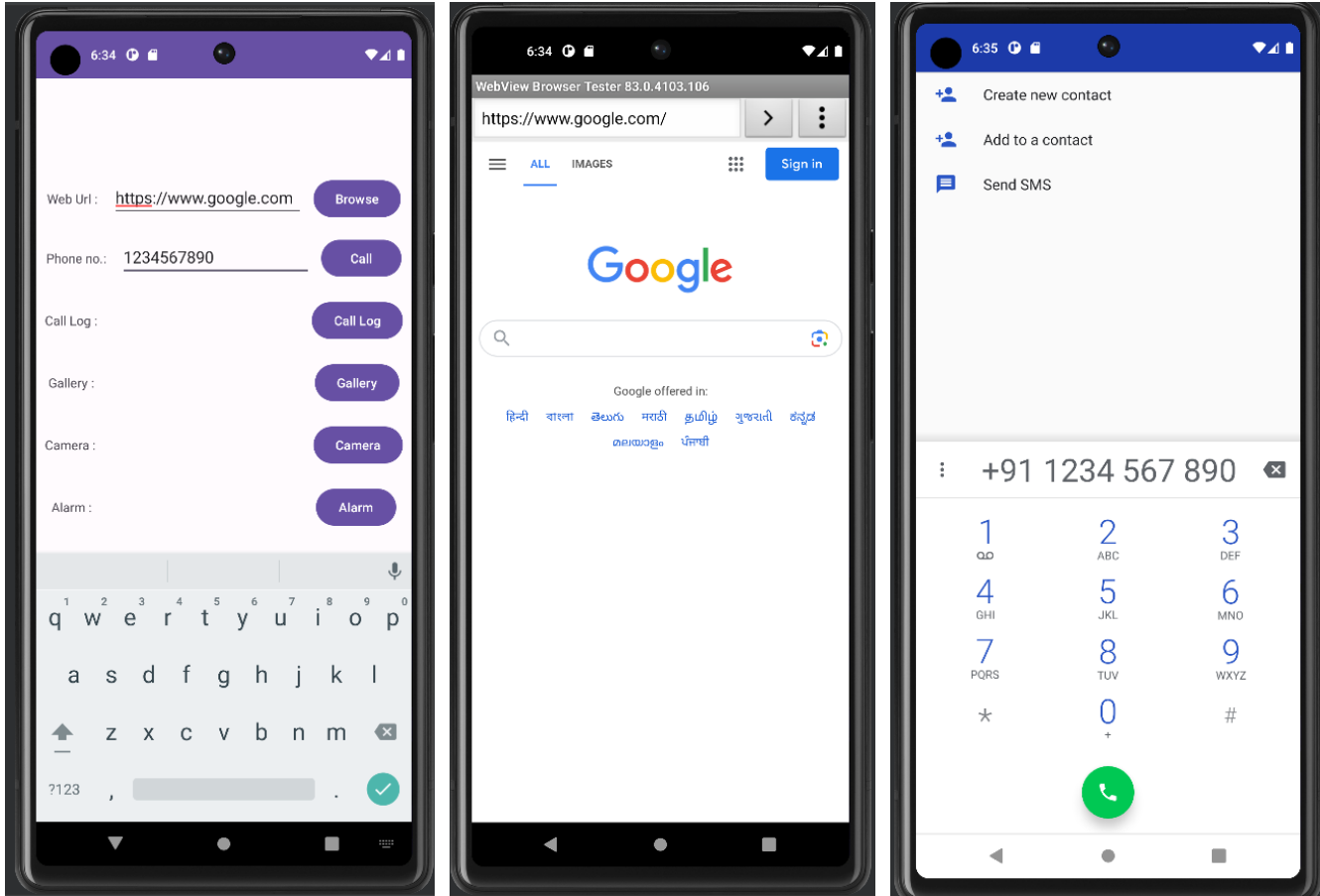
Mainactivity.xml:

```
package com.mahavirpatel.mad_practical_5_21012011088
import android.content.Intent
import android.net.Uri
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.provider.AlarmClock
import android.provider.CallLog
import android.provider.MediaStore
import android.widget.Button
import android.widget.EditText
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        //Browse Button
        val browse: Button = findViewById(R.id.button_browse)
        val editbrowse: EditText = findViewById(R.id.editTextURL)
        browse.setOnClickListener(){
            Intent(Intent.ACTION_VIEW, Uri.parse(editbrowse.text.toString())).also{ startActivity(it) }
        }
        val call: Button = findViewById(R.id.buttoncall)
        val editcall: EditText = findViewById(R.id.editTextText3)
        val tel="tel:+91"
        call.setOnClickListener(){
            Intent(Intent.ACTION_DIAL, Uri.parse(tel+editcall.text.toString())).also{ startActivity(it) }
        }
        val Calllog: Button = findViewById(R.id.button5)
        Calllog.setOnClickListener()
        { Intent(Intent.ACTION_VIEW).setType(CallLog.Calls.CONTENT_TYPE).also{ startActivity(it) } }
        val gallery: Button = findViewById(R.id.button7)
        gallery.setOnClickListener()
        {
            Intent(Intent.ACTION_VIEW).setType("image/*").also{ startActivity(it) }
        }
        val camera: Button = findViewById(R.id.button8)
```

Practical: 5

```
camera.setOnClickListener()  
{ Intent(MediaStore.ACTION_IMAGE_CAPTURE).also{ startActivity(it)}}  
val alarm:Button=findViewById(R.id.button9)  
alarm.setOnClickListener()  
{ Intent(AlarmClock.ACTION_SHOW_ALARMS).also{ startActivity(it)}}}
```

Output:



Practical: 5

