Experiment 2.3

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Subject Name: Mobile Application Development Lab **Subject Code: 20CSP-356**

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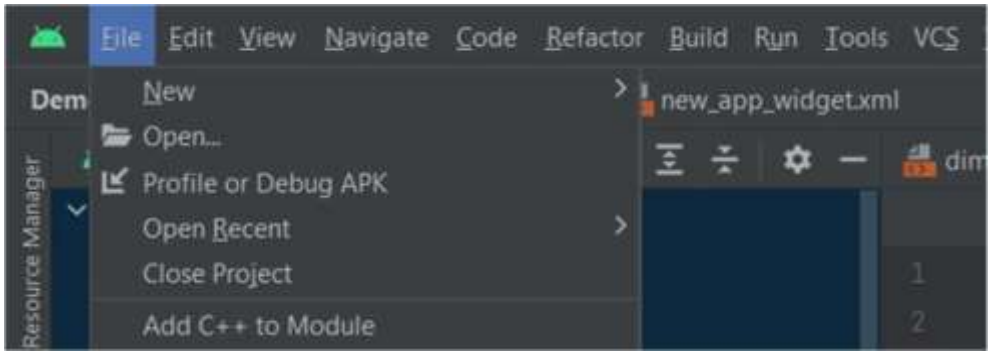
1. **Aim**:
   To design an android application and send SMS using Intent.

2. **System Requirements:**
   - Microsoft Windows 7/8/10 (32-bit or 64-bit)
   - 4 GB RAM minimum, 8 GB RAM recommended (plus 1 GB for the Android Emulator)
   - 2 GB of available disk space minimum, 4 GB recommended (500 MB for IDE plus 1.5 GB for Android SDK and emulator system image)
   - 1280 x 800 minimum screen resolution
   - Java JDK5 or later version
   - Java Runtime Environment (JRE) 6 Android Studio

3. **Steps/Program:**

   Step 1: Create new Project



   Step 2: Write the code and run the program

4. Code:

1. MainActivity.java

```
package com.example.exp_6;
import android.os.Bundle;
import android.app.Activity;
import android.telephony.gsm.SmsManager;
import android.view.Menu; import
android.view.View;
import android.view.View.OnClickListener; import
android.widget.Button;
public class MainActivity extends Activity
{
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState); setContentView(R.layout.activity_main);
Button bt=(Button)findViewById(R.id.button1); bt.setOnClickListener(new
OnClickListener()
{
        @Override
        public void onClick(View v)
        {
// TODO Auto-generated method stub
            android.telephony.SmsManager sms =
android.telephony.SmsManager.getDefault();
            //SmsManager sms=SmsManager.getDefault();
            sms.sendTextMessage("+917398986207", "+917398986207", "hello world", null,
null);
        }
    });
    }
    public boolean onCreateOptionsMenu(Menu menu)
    {
// Inflate the menu; this adds items to the action bar if it is present.
getMenuInflater().inflate(R.menu.main, menu);
return true;
    }
    }
```

2. Actuivity_Main.xml

```
<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:id="@+id/button1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_marginLeft="54dp"
```

```
            android:layout_marginTop="166dp" android:text="send" />
    </RelativeLayout>
```

3. AndroidMenifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools">
<uses-permission android:name="android.permission.SEND_SMS" />
<application
     android:allowBackup="true"
     android:dataExtractionRules="@xml/data_extraction_rules"
android:fullBackupContent="@xml/backup_rules"
android:icon="@mipmap/ic_launcher"
android:label="@string/app_name"          android:supportsRtl="true"
android:theme="@style/Theme.Exp_6"          tools:targetApi="31">
        <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>
```

5. OUTPUT: