

Date: 03/03/2022
Lab Session No.: 03

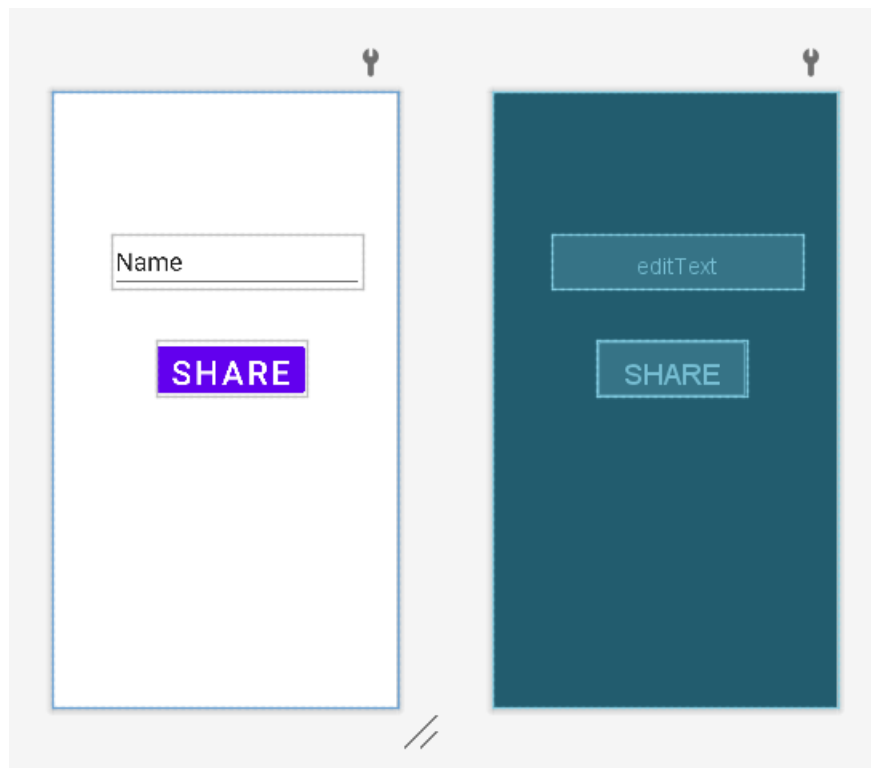
Aim:

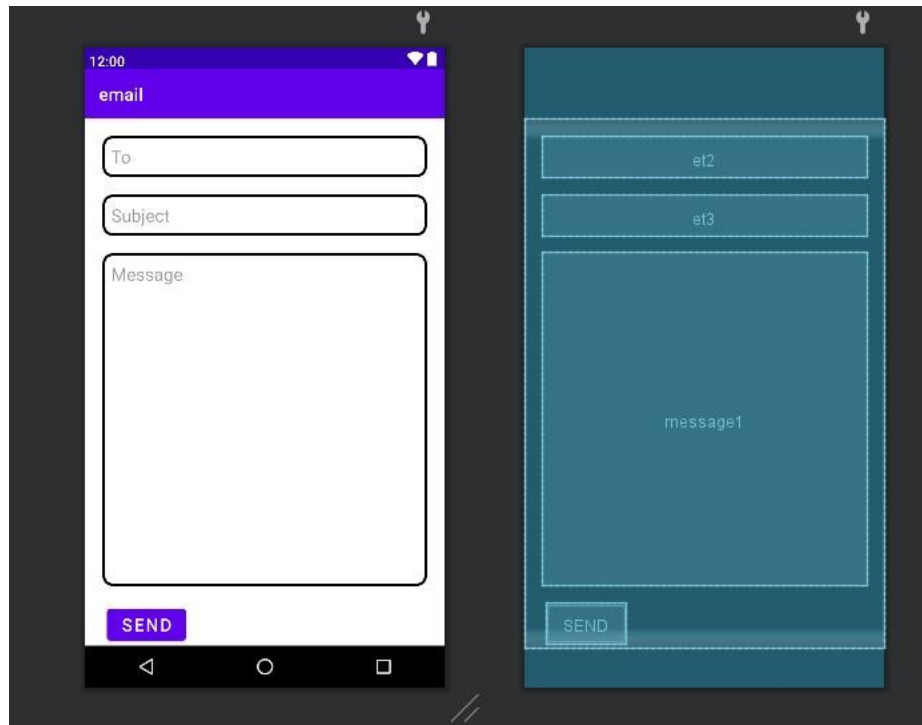
- a) Develop an android application to demonstrate the Implicit and Explicit Intent.
- b) Develop a mobile application that shares the message through an email.

Software's /IDE Tools:

Android Development Kit / Android Studio

Application User interface design:





Application Programming Interface:

API / PACKAGES	CLASSES / INTERFACES	METHODS	DESCRIPTION
import androidx.appcompat. AppCompatActivity;	AppCompatActivity	protected void onCreate(Bundle savedInstanceState)	onCreate(Bundle) is where you initialize your activity. When Activity is started and application is not loaded, then both onCreate() methods will be called.
import android.widget. EditText;	EditText	getText()	Determines the minimum type that getText() will return. If set, specifies that this TextView has a textual input method and should automatically capitalize what the user types.

Code/Implementation:

// Develop an android application to demonstrate the Implicit and Explicit Intent.

// Project Name : ShareMyApp

/*

Lab Session No.	: 03
Author	: Tellakula Avinash
Date	: 03/03/2022
Roll Number	: 198W1A05C0
Description	: Implementation of Intents
Softwares required	: Android Studio
Topics Covered	: Implicit Intents and Explicit Intents

*/

a)MainAcitivity.java

```

package com.avinash.myshareapp;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Button;
import android.content.Intent;

public class MainActivity extends AppCompatActivity implements
View.OnClickListener {

    Button b;
    EditText e;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b=(Button)findViewById(R.id.button);
        e=(EditText)findViewById(R.id.editText);
        b.setOnClickListener(this);
    }

    @Override
    public void onClick(View v) {
        if(v.getId()==R.id.button) {
            String result=e.getText().toString();
            Intent shareIntent=new Intent();
            shareIntent.setAction(Intent.ACTION_SEND);
            shareIntent.putExtra(Intent.EXTRA_TEXT,result);
            shareIntent.setType("text/plain");
            startActivity(shareIntent.createChooser(shareIntent,"Share to"));
        }
    }
}

```

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">

    <EditText
        android:id="@+id/editText"
        android:layout_width="297dp"
        android:layout_height="65dp"
        android:layout_marginStart="72dp"
        android:layout_marginTop="168dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        android:textSize="30sp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
        android:layout_width="178dp"
        android:layout_height="67dp"
        android:layout_marginStart="124dp"
        android:layout_marginTop="296dp"
        android:text="Share"
        android:textSize="40sp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

b)MainAcitivity.java

```
package com.avinash.email;
```

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

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

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

```

public class MainActivity extends AppCompatActivity {
    EditText mEditText,mEditTextMessage,mEditTextSubject;
    Button send;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

```

```

        setContentView(R.layout.activity_main);
        mEditText=(EditText)findViewById(R.id.et2);
        mEditTextMessage=(EditText)findViewById(R.id.et3);
        mEditTextSubject=(EditText)findViewById(R.id.message1);
        send=findViewById(R.id.bt_send);
        send.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                sendMail();
            }
        });
    }
    private void sendMail(){
        String getRecep=mEditText.getText().toString();
        String[] getReceplist=getRecep.split(",");
        String getsub=mEditTextSubject.getText().toString();
        String getmsg=mEditTextMessage.getText().toString();
        Intent intent=new Intent(Intent.ACTION_SEND);
        intent.putExtra(intent.EXTRA_EMAIL,getReceplist);
        intent.putExtra(intent.EXTRA_SUBJECT,getsub);
        intent.putExtra(intent.EXTRA_TEXT,getmsg);
        intent.setType("message/rfc822");
        startActivity(intent.createChooser(intent,"Choose the appropriate channel"));
    }
}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    tools:context=".MainActivity">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
    <EditText
        android:layout_width="match_parent"
        android:textSize="20dp"
        android:id="@+id/et2"
        android:layout_margin="20dp"
        android:padding="10dp"

```

```

        android:layout_height="wrap_content"
        android:hint="To"
        android:textColor="@color/black"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        android:background="@drawable/edit_text_background1"
        app:layout_constraintTop_toTopOf="parent" />
<EditText
    android:layout_width="match_parent"
    android:textSize="20dp"
    android:layout_marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:padding="10dp"
    android:textColor="@color/black"
    android:id="@+id/et3"
    android:layout_height="wrap_content"
    android:hint="Subject"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    android:background="@drawable/edit_text_background1"
    />
<EditText
    android:layout_width="match_parent"
    android:textSize="20dp"
    android:id="@+id/message1"
    android:gravity="top"
    android:textColor="@color/black"
    android:layout_margin="20dp"
    android:padding="10dp"
    android:layout_height="380dp"
    android:hint="Message"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    android:background="@drawable/edit_text_background1"
    />
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/bt_send"

```

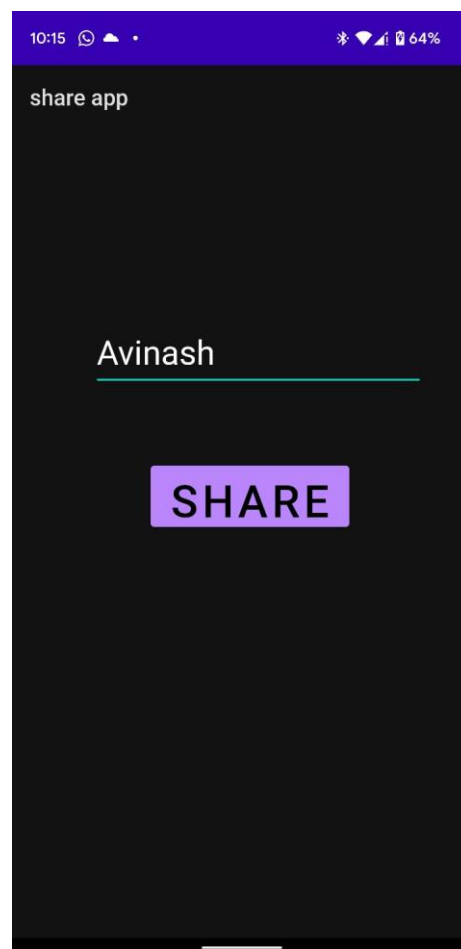
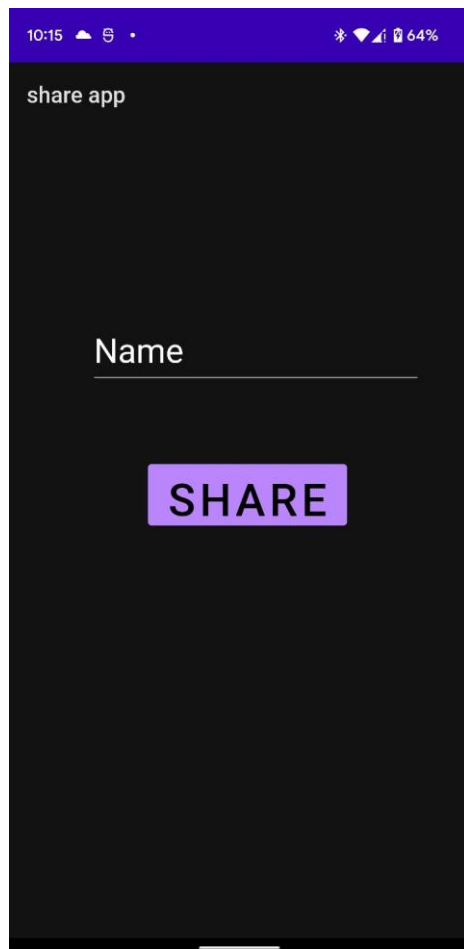
```
        android:layout_marginLeft="25dp"
        android:text="Send"
        android:textSize="20dp"
        android:textColor="@color/white"/>
    </LinearLayout>
</LinearLayout>
```

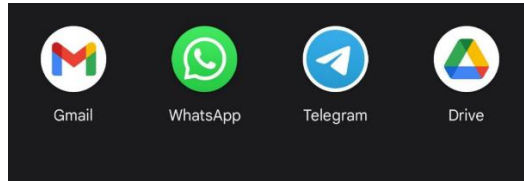
edit text background1.xml

```
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"
    android:shape="rectangle">

    <stroke android:width="3dp"
        android:color="@color/black"/>
    <corners android:radius="10dp"/>
    <solid android:color="@color/white"/>
</shape>
```

Output:





b)

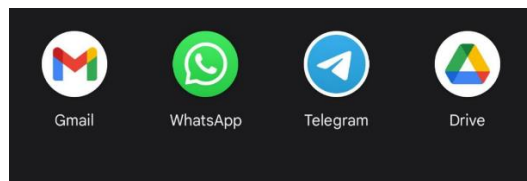
email

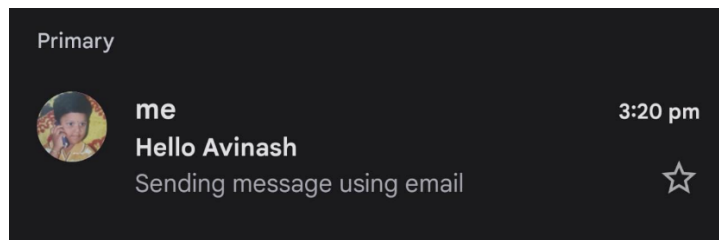
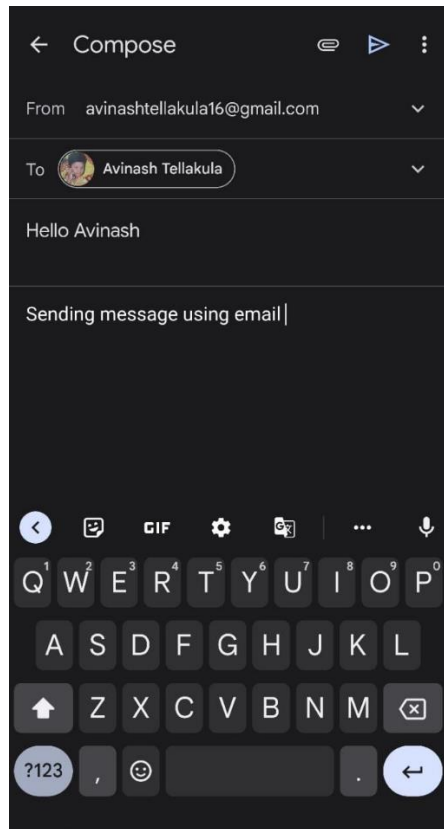
SEND

email

Hello Avinash

SEND



**Result:**

Demonstration the Implicit and Explicit Intents were done successfully.