

Aim :

Implentation of Email code using Implicit Intent in Android Studio.

Theory :

Intent : In our case Intent is an object in which we specify, which Activity we need to invoke. After it we pass this Intent-object to startActivity method, which finds the corresponding Activity and shows it. When creating an Intent we have used **Intent**(Context packageContext, Class cls) constructor with two parameters.

ACTION_SEND : It is an event in Android which is used to send data to other applications; it can be used to send text content, binary content, multiple pieces of content etc.

putExtra() : This method is use for send the data, data in key value pair key is variable name and value can be Int, String, Float etc.

getStringExtra() : **This** method is for get the data(key) which is send by above method. according the data type of value there are other methods like **getIntExtra()**, **getFloatExtra()**.

Algorithm :

Step 1 : Intent **email** = new Intent(Intent.ACTION_SEND);
Step 2 : **email.putExtra**(Intent.EXTRA_EMAIL, new String[]{ to});
Step 3 : **email.putExtra**(Intent.EXTRA_SUBJECT, subject);
Step 4 :**email.putExtra**(Intent.EXTRA_TEXT, message);
Step 5 :need this to prompts **email** client only.
Step 6 : **email.setType**("message/rfc822");

Code :**Output :**

sendEmail [C:\Users\shail\AndroidStudioProjects\sendEmail] - ... \app\src\main\res\layout\activity_m

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sendEmail > app > src > main > res > layout > activity_main.xml

activity_main.xml x MainActivity.java x

1: Project
Resource Manager
Layout Captures
2: Structure
Favorites

```
1 <?xml version="1.0" encoding="utf-8" ?>
2 <androidx.constraintlayout.widget.ConstraintLayout
3     xmlns:android="http://schemas.android.com/apk/res/android"
4     xmlns:app="http://schemas.android.com/apk/res-auto"
5     xmlns:tools="http://schemas.android.com/tools"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     tools:context=".MainActivity">
9
10    <TextView
11        android:id="@+id/t1"
12        android:layout_width="96dp"
13        android:layout_height="68dp"
14        android:text="To"
15        app:layout_constraintBottom_toBottomOf="parent"
16        app:layout_constraintHorizontal_bias="0.13"
17        app:layout_constraintLeft_toLeftOf="parent"
18        app:layout_constraintRight_toRightOf="parent"
19        app:layout_constraintTop_toTopOf="parent"
20        app:layout_constraintVertical_bias="0.161" />
21
22    <TextView
23        android:id="@+id/t2"
24        android:layout_width="126dp"
25        android:layout_height="61dp"
26        android:text="Subject"
27        app:layout_constraintBottom_toBottomOf="parent"
28        app:layout_constraintEnd_toEndOf="parent"
29        app:layout_constraintHorizontal_bias="0.056"
30        app:layout_constraintStart_toStartOf="parent"
31        app:layout_constraintTop_toTopOf="parent"
32        app:layout_constraintVertical_bias="0.335" />
33
34    <TextView
35        android:id="@+id/t3"
36        android:layout_width="117dp"
37        android:layout_height="74dp"
38        android:text="Message"
39        app:layout_constraintBottom_toBottomOf="parent"
40        app:layout_constraintEnd_toEndOf="parent"
41        app:layout_constraintHorizontal_bias="0.163"
42        app:layout_constraintStart_toStartOf="parent"
43        app:layout_constraintTop_toTopOf="parent"
44        app:layout_constraintVertical_bias="0.499" />
45
```

```

46 <Button
47     android:id="@+id/b1"
48     android:layout_width="137dp"
49     android:layout_height="78dp"
50     android:text="Send"
51     app:layout_constraintBottom_toBottomOf="parent"
52     app:layout_constraintEnd_toEndOf="parent"
53     app:layout_constraintStart_toStartOf="parent"
54     app:layout_constraintTop_toTopOf="parent"
55     app:layout_constraintVertical_bias="0.803" />
56
57 <EditText
58     android:id="@+id/ed1"
59     android:layout_width="239dp"
60     android:layout_height="78dp"
61     android:ems="10"
62     android:inputType="textPersonName"
63     app:layout_constraintBottom_toBottomOf="parent"
64     app:layout_constraintEnd_toEndOf="parent"
65     app:layout_constraintHorizontal_bias="0.941"
66     app:layout_constraintStart_toStartOf="parent"
67     app:layout_constraintTop_toTopOf="parent"
68     app:layout_constraintVertical_bias="0.163" />
69
70 <EditText
71     android:id="@+id/ed2"
72     android:layout_width="194dp"
73     android:layout_height="75dp"
74     android:ems="10"
75     android:inputType="textPersonName"
76     app:layout_constraintBottom_toBottomOf="parent"
77     app:layout_constraintEnd_toEndOf="parent"
78     app:layout_constraintHorizontal_bias="0.806"
79     app:layout_constraintStart_toStartOf="parent"
80     app:layout_constraintTop_toTopOf="parent"
81     app:layout_constraintVertical_bias="0.321" />
82
83 <EditText
84     android:id="@+id/ed3"
85     android:layout_width="212dp"
86     android:layout_height="74dp"
87     android:ems="10"
88     android:inputType="textPersonName"
89     app:layout_constraintBottom_toBottomOf="parent"
90     app:layout_constraintEnd_toEndOf="parent"
91     app:layout_constraintHorizontal_bias="0.878"
92     app:layout_constraintStart_toStartOf="parent"
93     app:layout_constraintTop_toTopOf="parent" />
94
95 </androidx.constraintlayout.widget.ConstraintLayout>

```

androidx.constraintlayout.widget.ConstraintLayout

sendEmail [C:\Users\shail\AndroidStudioProjects\sendEmail] - ...app\src\main\java\com\example\sendemail\MainActivity.java

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sendEmail > app > src > main > java > com > example > sendemail > MainActivity

1: Project
Resource Manager
ires

```
1 package com.example.sendemail;
2
3 import ...
10
11 public class MainActivity extends AppCompatActivity {
12     EditText a,b,c;
13     Button send;
14     @Override
15     protected void onCreate(Bundle savedInstanceState) {
16         super.onCreate(savedInstanceState);
17         setContentView(R.layout.activity_main);
18         a=(EditText)findViewById(R.id.ed1);
19         b=(EditText)findViewById(R.id.ed2);
20         c=(EditText)findViewById(R.id.ed3);
21         send=(Button)findViewById(R.id.b1);
22         send.setOnClickListener((v) -> {
23             String to=a.getText().toString();
24             String sub=b.getText().toString();
25             String msg=c.getText().toString();
26             Intent email=new Intent(Intent.ACTION_SEND);
27             email.putExtra(Intent.EXTRA_EMAIL,new String[]{to});
28             email.putExtra(Intent.EXTRA_SUBJECT,sub);
29             email.putExtra(Intent.EXTRA_TEXT,msg);
30             email.setType("message/rfc822");
31             startActivity(Intent.createChooser(email,"Choose an Email client"));
32         });
33     }
34 }
35
36
37
38
```

