Android Class

#Android Notes

Email In Android

Email

- To send email from our android application we need following Intent actions.
  - Intent.ACTION_SEND
  - Intent.EXTRA_EMAIL
  - Intent.EXTRA_SUBJECT
  - Intent.EXTRA_TEXT
  - Intent.createChooser()

Intent.ACTION_SEND

- The Intent object in android with proper action (**ACTION_SEND**) and data will help us to launch the available email clients to send an email in our application.

- Syntax :-
- **Intent intent = new Intent(Intent.ACTION_SEND);**

Intent.EXTRA_EMAIL

- It is a String[] array that holding e-mail addresses that should be delivered to.
- We have to use putExtra() method of Intent to put data on email client to send an email.

- Syntax :-
- **intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to});**

Intent.EXTRA_SUBJECT

- Intent.EXTRA_SUBJECT contains subject of email.

- Syntax :-
- **intent.putExtra(Intent.EXTRA_SUBJECT, subject);**

Intent.EXTRA_TEXT

- **Intent.EXTRA_TEXT** contains text for email.

- Syntax:-
- **intent.putExtra(Intent.EXTRA_TEXT, message);**

Intent.createChooser()

- Intent.createChooser() method is used to choose email client.

- Syntax :-
- **Intent.*createChooser*(pass intent object, title)**

Steps

- Create new project.
- Design activity_main.xml as per your requirement.
- In MainActivity.java create object of controls and initialize it.
- In inside onClick() method of button take string variables that store content of EditText.
- Create an object of Intent.
- Use ACTION_SEND action to launch an email client installed on your Android device.

Intent intent = new Intent(Intent.ACTION_SEND);

Cont...

- Use putExtra() method of intent and pass key & value.

```
intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to});
intent.putExtra(Intent.EXTRA_SUBJECT, subject);
intent.putExtra(Intent.EXTRA_TEXT, message);
```

- Now you need to add below line to prompt email client only.If you don't include this line ,then it might possible that your app will be crash.

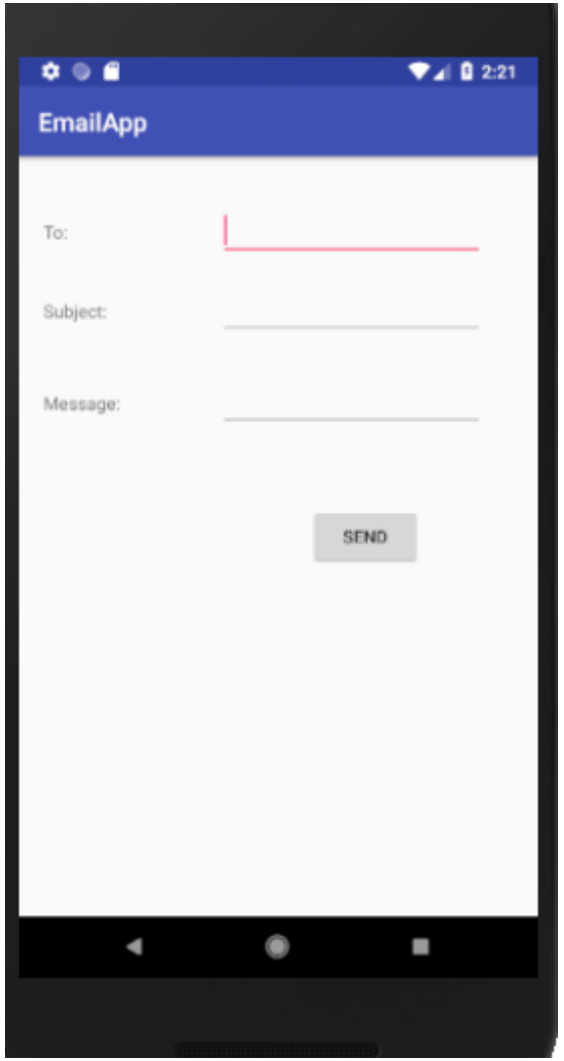
```
intent.setType("message/rfc822");
```

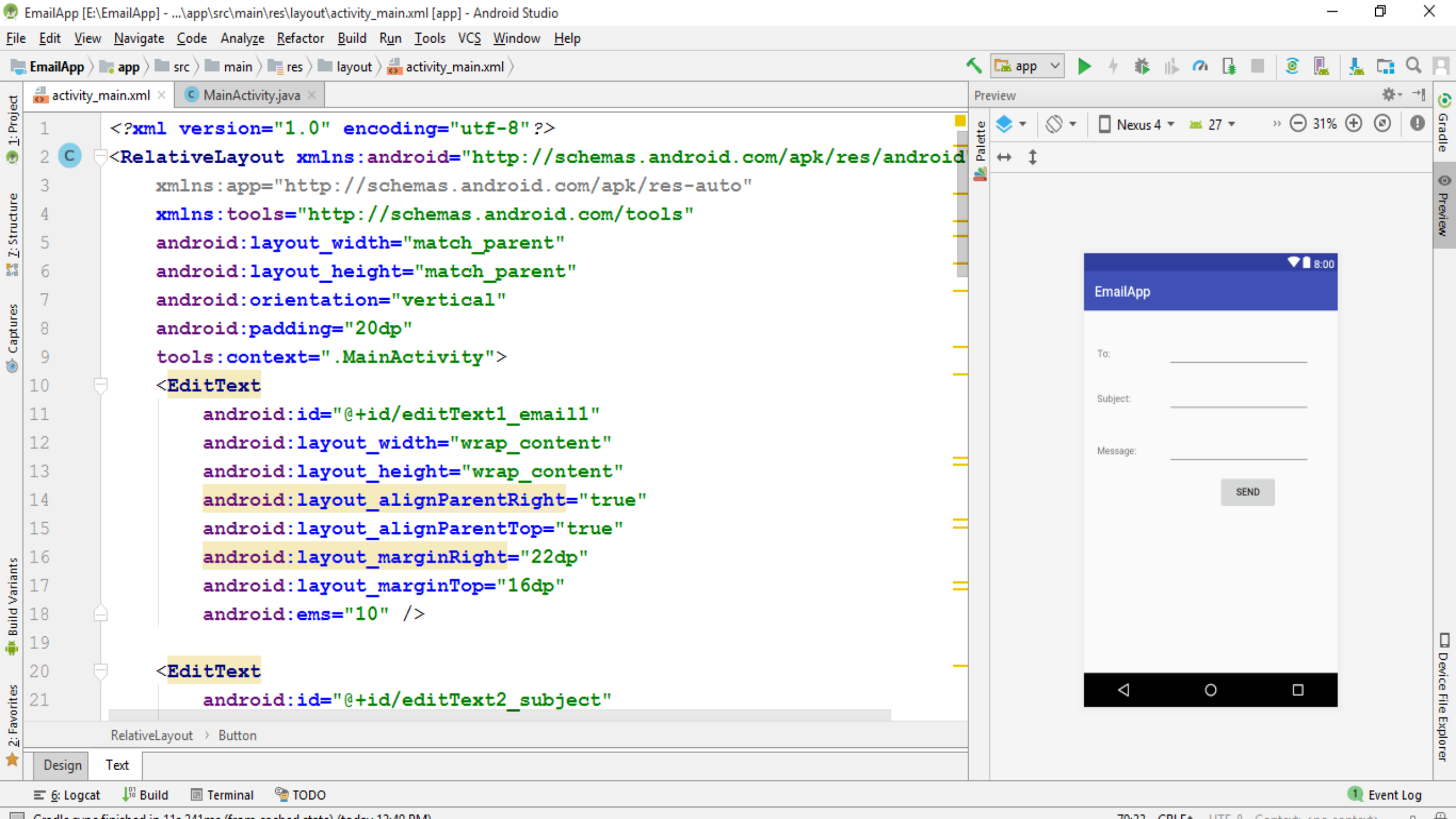
Cont...

- Start your intent using startActivity() method.

```
startActivity(Intent.createChooser(intent, "Send email :"));
```

- Run your application.


2:21
EmailApp
To:
Subject:
Message:
SEND


EmailApp [E:\EmailApp] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
EmailApp app src main res layout activity_main.xml
activity_main.xml MainActivity.java
<?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="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:padding="20dp"
tools:context=".MainActivity">
<EditText
android:id="@+id/editText1_email1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentRight="true"
android:layout_alignParentTop="true"
android:layout_marginRight="22dp"
android:layout_marginTop="16dp"
android:ems="10" />
<EditText
android:id="@+id/editText2_subject"
RelativeLayout › Button
Design Text
Preview
Nexus 4 27 31%
8:00
EmailApp
To:
Subject:
Message:
SEND
6: Logcat Build Terminal TODO
Event Log

EmailApp [E:\EmailApp] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

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

activity_main.xml | MainActivity.java

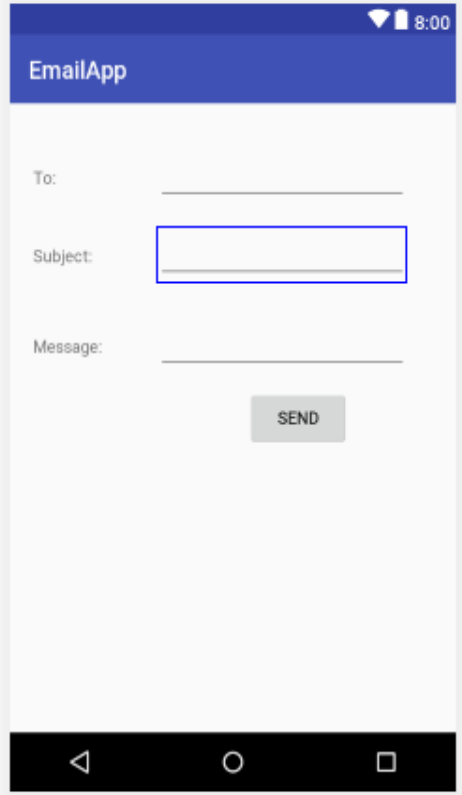
```
    <EditText
        android:id="@+id/editText2_subject"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText1_email1"
        android:layout_below="@+id/editText1_email1"
        android:layout_marginTop="18dp"
        android:ems="10">
    </EditText>

    <EditText
        android:id="@+id/editText3_message"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText2_subject"
        android:layout_below="@+id/editText2_subject"
        android:layout_marginTop="28dp"
        android:ems="10"
        android:inputType="textMultiLine" />

    <TextView
```

RelativeLayout › EditText

Design | Text

Preview

Nexus 4 | 27 | 31%



6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 11s 241ms (from cached state) (today 12:49 PM)

28:1 CRLF UTF-8 Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

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

activity_main.xml | MainActivity.java

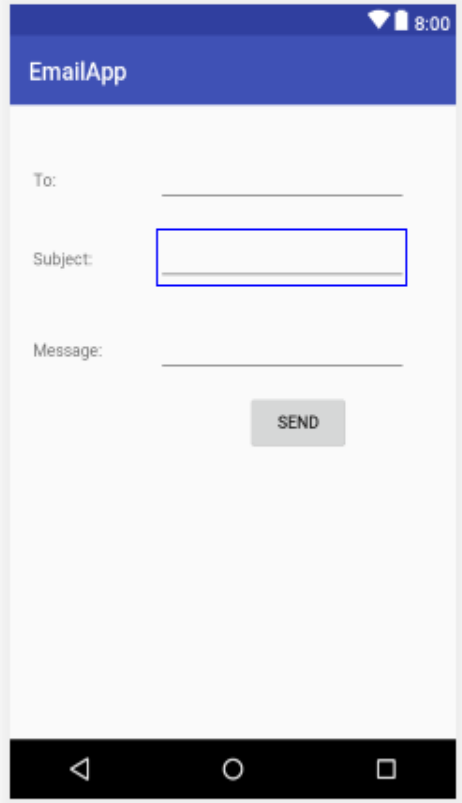
```
    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/editText1_email1"
        android:layout_alignBottom="@+id/editText1_email1"
        android:layout_alignParentLeft="true"
        android:text="To:" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/editText2_subject"
        android:layout_alignBottom="@+id/editText2_subject"
        android:layout_alignParentLeft="true"
        android:text="Subject:" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
```

RelativeLayout › EditText

Design | Text

Preview

Nexus 4 | 27 | 31%



6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 11s 241ms (from cached state) (today 12:49 PM)

28:1 CRLF UTF-8 Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

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

activity_main.xml | MainActivity.java

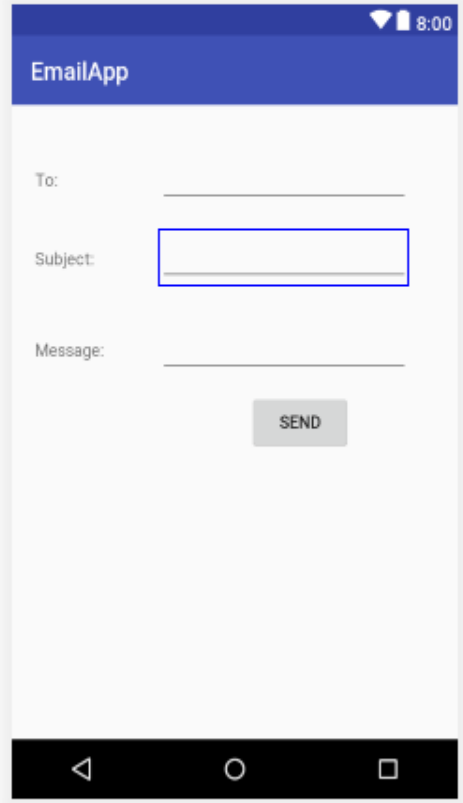
```
58      <TextView
59          android:id="@+id/textView3"
60          android:layout_width="wrap_content"
61          android:layout_height="wrap_content"
62          android:layout_alignBaseline="@+id/editText3_message"
63          android:layout_alignBottom="@+id/editText3_message"
64          android:layout_alignParentLeft="true"
65          android:text="Message:" />
66
67      <Button
68          android:id="@+id/btnSend"
69          android:layout_width="wrap_content"
70          android:layout_height="wrap_content"
71          android:layout_alignEnd="@+id/editText3_message"
72          android:layout_alignRight="@+id/editText3_message"
73          android:layout_centerVertical="true"
74          android:layout_marginEnd="50dp"
75          android:layout_marginRight="50dp"
76          android:text="Send" />
77
78  </RelativeLayout>
```

RelativeLayout › EditText

Design | Text

Preview

Nexus 4 | 27 | 31%



1: Project | 7: Structure | Captures | Build Variants | 2: Favorites | Gradle | Preview | Device File Explorer | Palette

6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 11s 241ms (from cached state) (today 12:49 PM)

28:1 CRLF UTF-8 Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\java\com\example\akashtechnolabs\emailapp\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

EmailApp > app > src > main > java > com > example > akashtechnolabs > emailapp > MainActivity

activity_main.xml | MainActivity.java

```
3   import ...
9
10  public class MainActivity extends AppCompatActivity {
11      EditText etTo, etSubject, etMessage;
12      Button btnSend;
13
14      @Override
15      protected void onCreate(Bundle savedInstanceState) {
16          super.onCreate(savedInstanceState);
17          setContentView(R.layout.activity_main);
18          etTo = (EditText) findViewById(R.id.editText1_email1);
19          etSubject = (EditText) findViewById(R.id.editText2_subject);
20          etMessage = (EditText) findViewById(R.id.editText3_message);
21          btnSend = (Button) findViewById(R.id.btnSend);
22          btnSend.setOnClickListener(new View.OnClickListener() {
23              @Override
24              public void onClick(View v) {
25
26              }
27          });
28      }
29  }
```

MainActivity › onCreate() › new OnClickListener › onClick()

6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 11s 241ms (from cached state) (9 minutes ago)

25:1 CRLF UTF-8 Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\java\com\example\akashtechnolabs\emailapp\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

EmailApp > app > src > main > java > com > example > akashtechnolabs > emailapp > MainActivity

activity_main.xml | MainActivity.java

```
15      protected void onCreate(Bundle savedInstanceState) {
16          super.onCreate(savedInstanceState);
17          setContentView(R.layout.activity_main);
18          etTo = (EditText) findViewById(R.id.editText1_email1);
19          etSubject = (EditText) findViewById(R.id.editText2_subject);
20          etMessage = (EditText) findViewById(R.id.editText3_message);
21          btnSend = (Button) findViewById(R.id.btnSend);
22          btnSend.setOnClickListener(new View.OnClickListener() {
23              @Override
24              public void onClick(View v) {
25                  String to = etTo.getText().toString();
26                  String subject = etSubject.getText().toString();
27                  String message = etMessage.getText().toString();
28              }
29          });
30      }
31  }
32
```

MainActivity › onCreate() › new OnClickListener › onClick()

6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 11s 241ms (from cached state) (9 minutes ago)

182 chars, 3 line breaks 24:41 CRLF UTF-8 Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\java\com\example\akashtechnolabs\emailapp\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

EmailApp > app > src > main > java > com > example > akashtechnolabs > emailapp > MainActivity

activity_main.xml | MainActivity.java

```
        etTo = (EditText) findViewById(R.id.editText1_email);
        etSubject = (EditText) findViewById(R.id.editText2_subject);
        etMessage = (EditText) findViewById(R.id.editText3_message);
        btnSend = (Button) findViewById(R.id.btnSend);
        btnSend.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String to = etTo.getText().toString();
                String subject = etSubject.getText().toString();
                String message = etMessage.getText().toString();
                //Use implicit intent
                //use ACTION_SEND action to launch an email client installed on your Android device.
                Intent email = new Intent(Intent.ACTION_SEND);
            }
        });
    }
}
```

MainActivity › onCreate() › new OnClickListener › onClick()

6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 11s 241ms (from cached state) (15 minutes ago)

184 chars, 2 line breaks 28:15 CRLF UTF-8 Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\java\com\example\akashtechnolabs\emailapp\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

EmailApp > app > src > main > java > com > example > akashtechnolabs > emailapp > MainActivity

app

activity_main.xml | MainActivity.java

```
23          @Override
24          public void onClick(View v) {
25              String to = etTo.getText().toString();
26              String subject = etSubject.getText().toString();
27              String message = etMessage.getText().toString();
28              //Use implicit intent
29              //Use ACTION_SEND action to launch an email client installed on your Android device.
30              Intent intent = new Intent(Intent.ACTION_SEND);
31              //We have to use putExtra() method of Intent to put data on email client to send an email.
32              //Intent.EXTRA_EMAIL is a String[] array that holding e-mail addresses that should be delivered to.
33              intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to});
34
35          }
36      });
37  }
38
39
```

MainActivity › onCreate() › new OnClickListener › onClick()

6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 6s 973ms (from cached state) (today 11:51 AM)

278 chars, 2 line breaks 33:71 CRLF UTF-8 Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\java\com\example\akashtechnolabs\emailapp\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

EmailApp > app > src > main > java > com > example > akashtechnolabs > emailapp > MainActivity

app

activity_main.xml | MainActivity.java

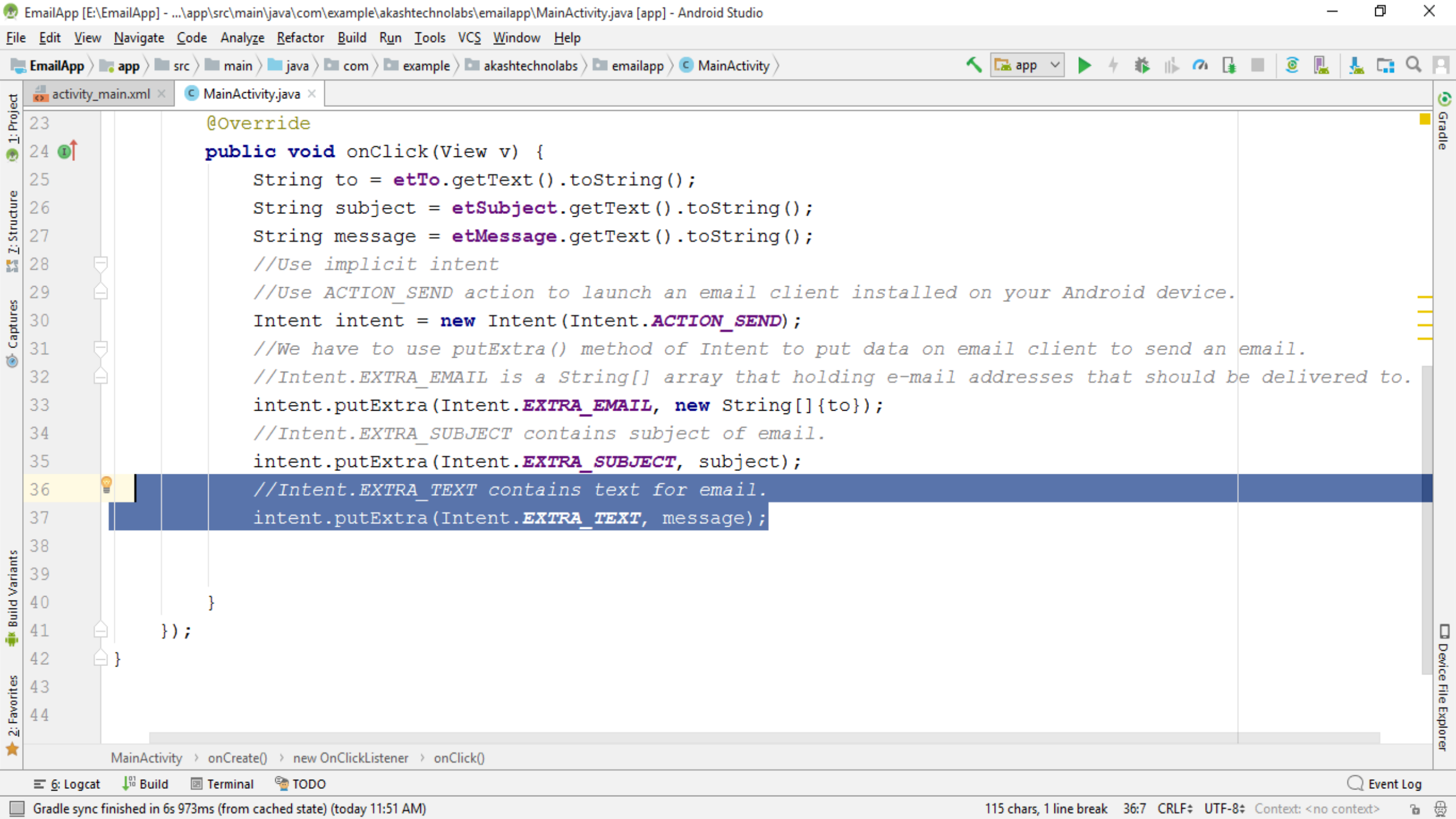
```
23          @Override
24          public void onClick(View v) {
25              String to = etTo.getText().toString();
26              String subject = etSubject.getText().toString();
27              String message = etMessage.getText().toString();
28              //Use implicit intent
29              //Use ACTION_SEND action to launch an email client installed on your Android device.
30              Intent intent = new Intent(Intent.ACTION_SEND);
31              //We have to use putExtra() method of Intent to put data on email client to send an email.
32              //Intent.EXTRA_EMAIL is a String[] array that holding e-mail addresses that should be delivered to.
33              intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to});
34              //Intent.EXTRA_SUBJECT contains subject of email.
35              intent.putExtra(Intent.EXTRA_SUBJECT, subject);
36
37          }
38      });
39  }
40
41
```

MainActivity › onCreate() › new OnClickListener › onClick()

6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 6s 973ms (from cached state) (today 11:51 AM)

124 chars, 1 line break 34:6 CRLF UTF-8 Context: <no context>


EmailApp [E:\EmailApp] - ...\app\src\main\java\com\example\akashtechnolabs\emailapp\MainActivity.java [app] - Android Studio
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
EmailApp app src main java com example akashtechnolabs emailapp MainActivity
app
activity_main.xml
MainActivity.java
@Override
public void onClick(View v) {
String to = etTo.getText().toString();
String subject = etSubject.getText().toString();
String message = etMessage.getText().toString();
//Use implicit intent
//Use ACTION_SEND action to launch an email client installed on your Android device.
Intent intent = new Intent(Intent.ACTION_SEND);
//We have to use putExtra() method of Intent to put data on email client to send an email.
//Intent.EXTRA_EMAIL is a String[] array that holding e-mail addresses that should be delivered to.
intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to});
//Intent.EXTRA_SUBJECT contains subject of email.
intent.putExtra(Intent.EXTRA_SUBJECT, subject);
//Intent.EXTRA_TEXT contains text for email.
intent.putExtra(Intent.EXTRA_TEXT, message);
}
});
}
MainActivity › onCreate() › new OnClickListener › onClick()
1: Project
7: Structure
Captures
Build Variants
2: Favorites
Gradle
Device File Explorer
6: Logcat
Build
Terminal
TODO
Event Log
Gradle sync finished in 6s 973ms (from cached state) (today 11:51 AM)
115 chars, 1 line break
36:7
CRLF
UTF-8
Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\java\com\example\akashtechnolabs\emailapp\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

EmailApp > app > src > main > java > com > example > akashtechnolabs > emailapp > MainActivity

activity_main.xml | MainActivity.java

```
23              @Override
24              public void onClick(View v) {
25                  String to = etTo.getText().toString();
26                  String subject = etSubject.getText().toString();
27                  String message = etMessage.getText().toString();
28                  //Use implicit intent
29                  //Use ACTION_SEND action to launch an email client installed on your Android device.
30                  Intent intent = new Intent(Intent.ACTION_SEND);
31                  //We have to use putExtra() method of Intent to put data on email client to send an email.
32                  //Intent.EXTRA_EMAIL is a String[] array that holding e-mail addresses that should be delivered t
33                  intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to});
34                  //Intent.EXTRA_SUBJECT contains subject of email.
35                  intent.putExtra(Intent.EXTRA_SUBJECT, subject);
36                  //Intent.EXTRA_TEXT contains text for email.
37                  intent.putExtra(Intent.EXTRA_TEXT, message);
38
39                  //Add below line to prompt email client only.
40                  intent.setType("message/rfc822");
41
42              }
43          });
44      }
```

MainActivity › onCreate() › new OnClickListener › onClick()

6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 6s 973ms (from cached state) (today 11:51 AM)

112 chars, 2 line breaks 38:1 CRLF UTF-8 Context: <no context>

EmailApp [E:\EmailApp] - ...\app\src\main\java\com\example\akashtechnolabs\emailapp\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

EmailApp > app > src > main > java > com > example > akashtechnolabs > emailapp > MainActivity

activity_main.xml | MainActivity.java

```
31                  //We have to use putExtra() method of Intent to put data on email client to send an email.
32                  //Intent.EXTRA_EMAIL is a String[] array that holding e-mail addresses that should be delivered t
33                  intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to});
34                  //Intent.EXTRA_SUBJECT contains subject of email.
35                  intent.putExtra(Intent.EXTRA_SUBJECT, subject);
36                  //Intent.EXTRA_TEXT contains text for email.
37                  intent.putExtra(Intent.EXTRA_TEXT, message);
38
39                  //Add below line to prompt email client only.
40                  intent.setType("message/rfc822");
41
42                  //Intent.createChooser() method is used to choose email client.
43                  startActivity(Intent.createChooser(intent, title: "Send email :"));
44              }
45          });
46      }
47  }
48
```

MainActivity › onCreate() › new OnClickListener › onClick()

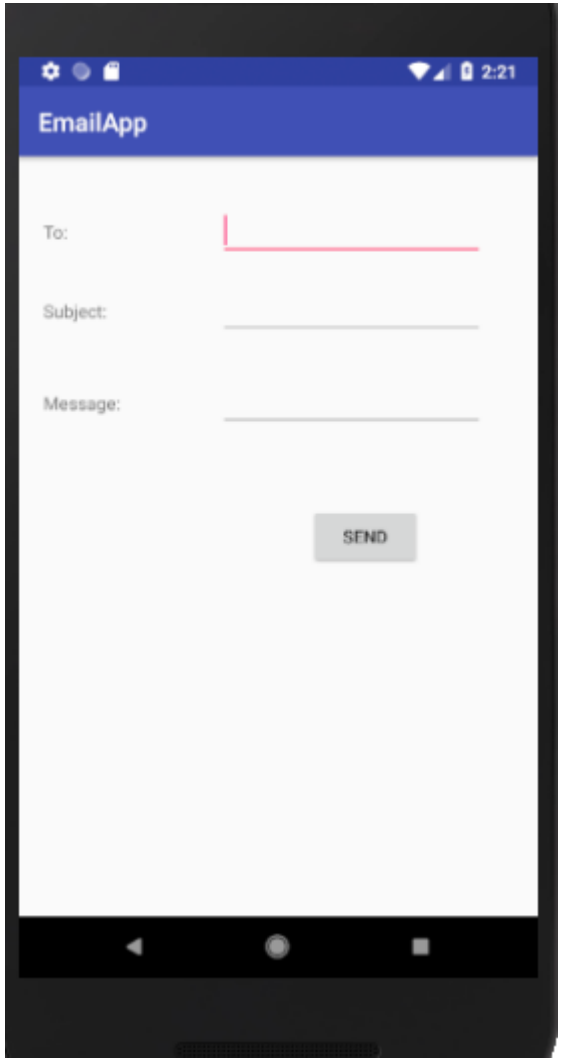
6: Logcat | Build | Terminal | TODO | Event Log

Gradle sync finished in 6s 973ms (from cached state) (today 11:51 AM) 157 chars, 2 line breaks 41:1 CRLF UTF-8 Context: <no context>

Note :-

- To run this application you have to connected your actual Android Mobile device with your computer.

Output



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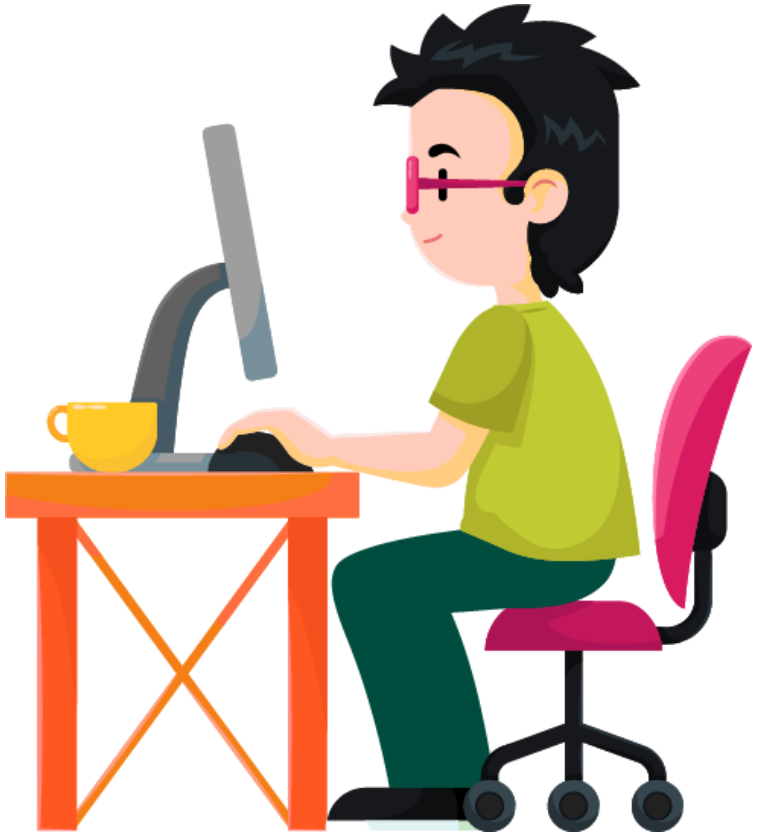

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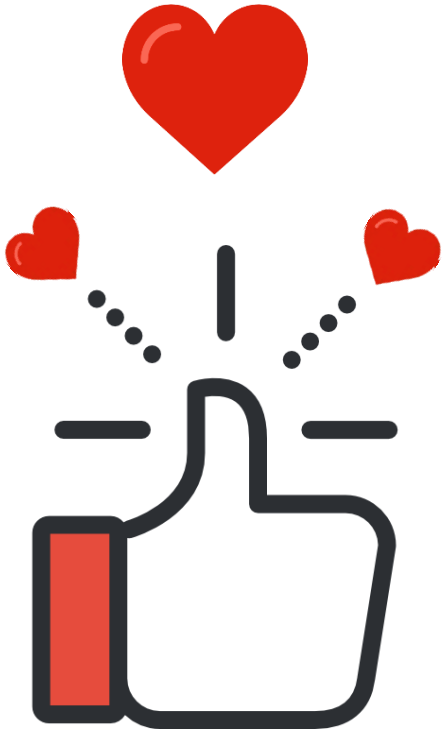
Sulekha

https://www.sulekha.com/akash-technolabs-navrangpura-ahmedabad-contact-address/ahmedabad



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