

4) Keyboards

Activity main.xml

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/elements/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout_width="match_parent"

android:layout_height="match_parent"

tools:context="com.example.android.keyboardsamples.MainActivity"> <Button

android:id="@+id/button_main"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_alignParentBottom="true"

android:layout_alignParentRight="true"

android:onClick="showText"

android:text="@string/show" />

<EditText

android:id="@+id/editText_main"

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:inputType="textPassword"

android:layout_toLeftOf="@id/button_main"

android:hint="@string/enter" />

</RelativeLayout>

MainActivity.java

Import

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
    }
```

```
    public void showText(View view) {
```

```
        EditText editText = (EditText)
```

```
        findViewById(R.id.editText_main); if
```

```
        (editText != null) {
```

```
            String showString =
```

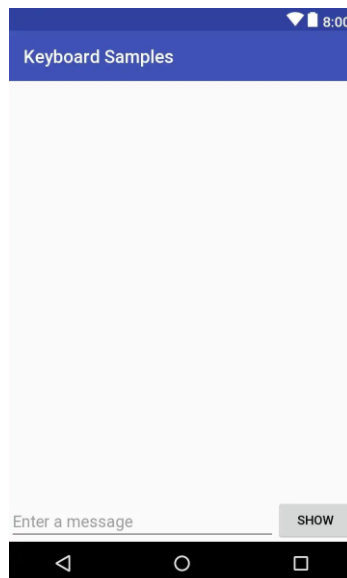
```
            editText.getText().toString();
```

```
            Toast.makeText(this, showString,
```

```
            Toast.LENGTH_SHORT).show();
```

```
        } } }
```

Output :-



5) Input Control

Activity_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="com.example.android.phonenumbers

pinner.MainActivity"> <LinearLayout

android:layout_width="match_parent"

android:layout_height="match_parent"

android:orientation="horizontal">

<EditText

android:id="@+id/editText_main"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:inputType="phone"

android:hint="@string/hint_phonenumber" />

<Spinner

android:id="@+id/label_spinner"

android:layout_width="wrap_content"

android:layout_height="wrap_content">

</Spinner>

```
<Button
```

```
    android:id="@+id/button_main"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:onClick="showText"
```

```
    android:text="@string/show_button" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:orientation="horizontal"
```

```
    android:layout_alignParentBottom="true">
```

```
    <TextView
```

```
        android:id="@+id/title_phonelabel"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:text="@string/phonenummer_label"/>
```

```
    <TextView
```

```
        android:id="@+id/text_phonelabel"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:text="@string/nothing_entered"/>
```

```
</LinearLayout>
```

```
</RelativeLayout>
```

MainActivity.java

```
public class MainActivity extends AppCompatActivity implements
    AdapterView.OnItemClickListener { private static final String TAG
    = MainActivity.class.getSimpleName();

    private String mSpinnerLabel = "";

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        Spinner spinner = (Spinner)
        findViewById(R.id.label_spinner); if
        (spinner != null) {

            spinner.setOnItemClickListener(this);

        }
        ArrayAdapter<CharSequence> adapter =
        ArrayAdapter.createFromResource(this, R.array.labels_array,
        android.R.layout.simple_spinner_item);

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown
        item)

        if (spinner != null) {

            spinner.setAdapter(adapter);    }    }

    public void showText(View view) {

        EditText editText = (EditText)
        findViewById(R.id.editText_main); if
        (editText != null) {
```

```
String showString = (editText.getText().toString()
+ " - " + mSpinnerLabel); Toast.makeText(this,
showString, Toast.LENGTH_SHORT).show();
TextView textView =
(TextView)findViewById(R.id.text_phonelabel);
textView.setText(showString); } }
```

@Override

```
public void onItemSelected(AdapterView<?>
adapterView, View view, int i, long l) { mSpinnerLabel
= adapterView.getItemAtPosition(i).toString();
showText(view); }
```

@Override

```
public void
onNothingSelected(AdapterView<?>
adapterView) { Log.d(TAG,
getString(R.string.nothing_selected)); }
```

```
.string.nothing_selected));
```

Output :-

