

02 - Layout Managers and Event Listeners

Ex. No. : 2

Roll No. :

Date :

Reg. No. :

Aim

Develop an application that uses Layout Managers and event listeners.

Procedure

Start a new project "Layout Managers".

Drag a LinearLayout (Vertical) to the screen.

Place the components on the layout as shown in the following order:

Component	Id	Text
TextView	textView	Roll No.
EditText	etRollNo	
TextView	textView2	Name
EditText	etName	
TextView	textView3	Branch
Spinner	spinner	

Right click on the package select New → Activity → Empty Activity.

Name it as Second Activity.

Drag a LinearLayout (Vertical) to the screen.

Place the components on the layout as shown in the following order:

Component	Id
TextView	tvRollNo
TextView	tvName
TextView	tvBranch

Two most commonly used event listeners - `onClickEventListener()` and `onLongClickEventListener()`.

Open the MainActivity.java file.

First we need to define some variables for each items in the UI.

```
EditText etRollNo, etName;  
Spinner spinner;
```

```
Button button;  
String [] dept = {"CSE", "IT"};  
String rollNo, name, branch;
```

Assign the UI elements to these variables using findViewById() inside onCreate().

```
etRollNo = (EditText) findViewById(R.id.etRollNo);  
etName = (EditText) findViewById(R.id.etName);  
spinner = (Spinner) findViewById(R.id.spinner);  
button = (Button) findViewById(R.id.button);  
ArrayAdapter arrayAdapter= new ArrayAdapter  
(MainActivity.this, android.R.layout.simple_spinner_item, dept);  
spinner.setAdapter(arrayAdapter);
```

Implementing the onClickListener:

```
button.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        rollNo = etRollNo.getText().toString();  
        name = etName.getText().toString();  
        branch = spinner.getSelectedItem().toString();  
        Intent intent = new Intent(MainActivity.this,  
            SecondActivity.class);  
        intent.putExtra("rollNo", rollNo);  
        intent.putExtra("name", name);  
        intent.putExtra("branch", branch);  
        startActivity(intent);  
    }  
});
```

Open the SecondActivity.java file.

Define variables for each items in the UI.

```
TextView tvRollNo, tvName, tvBranch;
```

Type the following inside the onCreate() method.

```
tvRollNo = (TextView) findViewById(R.id.tvRollNo);  
tvName = (TextView) findViewById(R.id.tvName);  
tvBranch = (TextView) findViewById(R.id.tvBranch);  
Intent intent = getIntent();  
tvRollNo.setText(intent.getStringExtra("rollNo"));  
tvName.setText(intent.getStringExtra("name"));  
tvBranch.setText(intent.getStringExtra("branch"));
```

Output

Layout Managers

Roll No.

Name

Branch
CSE

SUBMIT

Layout Managers

Roll No.
201401001

Name
Arun

Branch
CSE

SUBMIT

Layout Managers

201401001
Arun
CSE