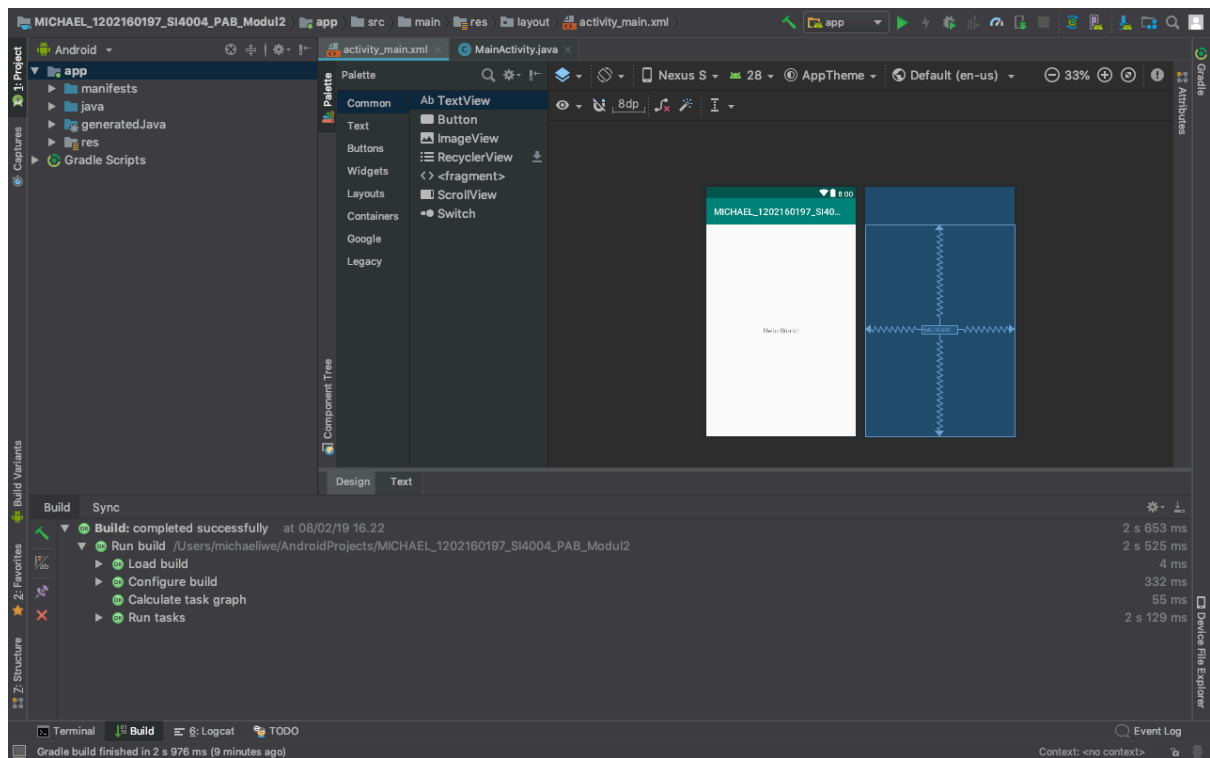


DOKUMENTASI PRAKTIKUM MODUL 02 PEMOGRAMAN APLIKASI BERGERAK

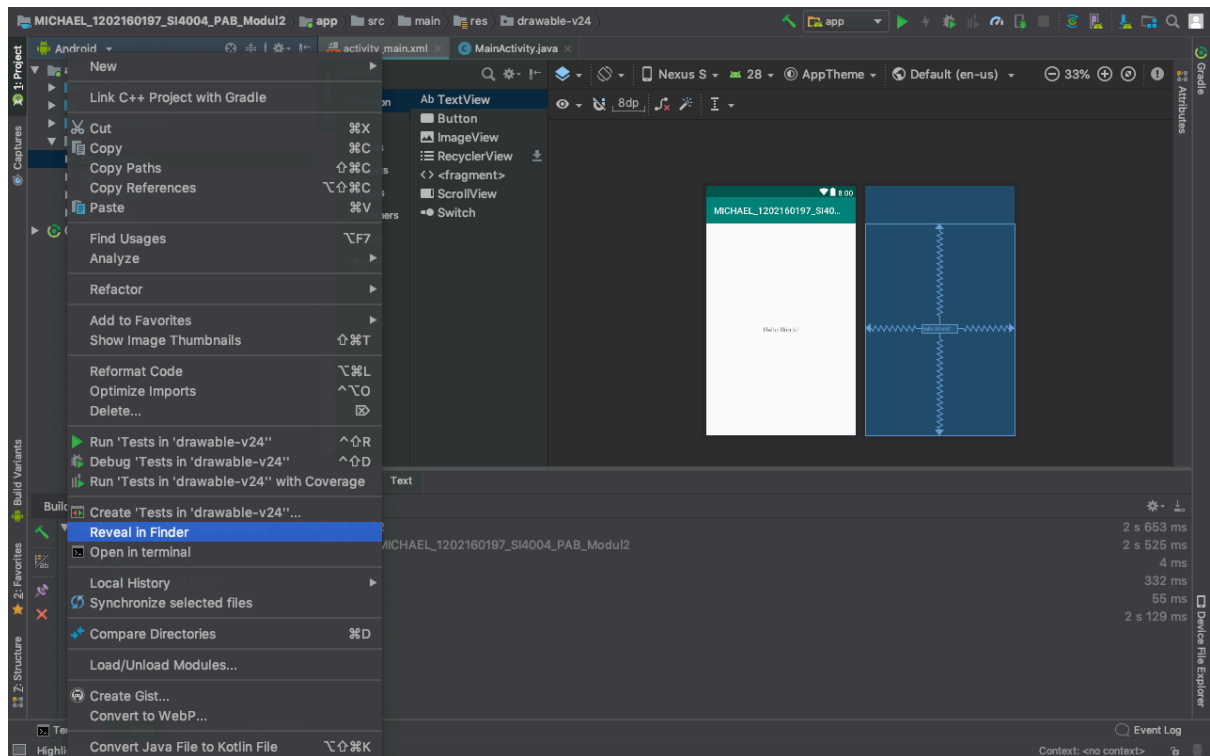
Nama : Michael Addryan Liwe

NIM : 1202160197

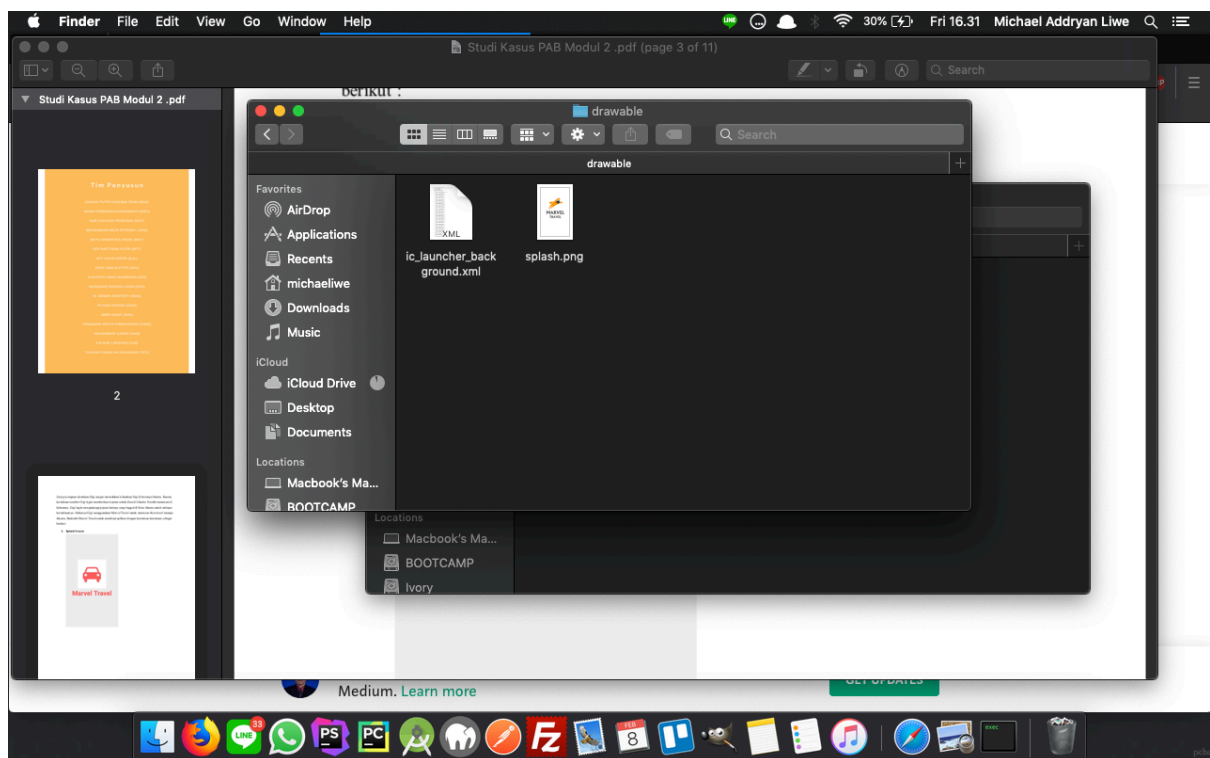
Kelas : SI4004



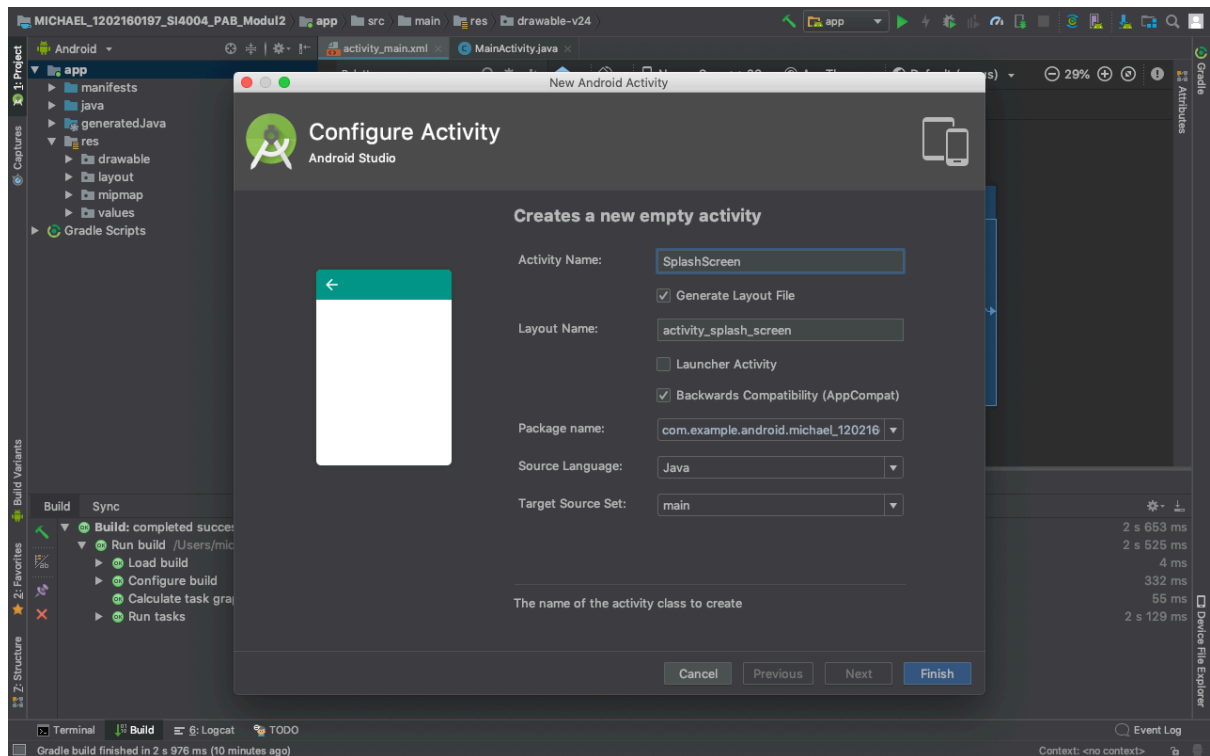
Penjelasan : Membuat proyek dengan nama MICHAEL_1202160197_SI4004_PAB_Modul2



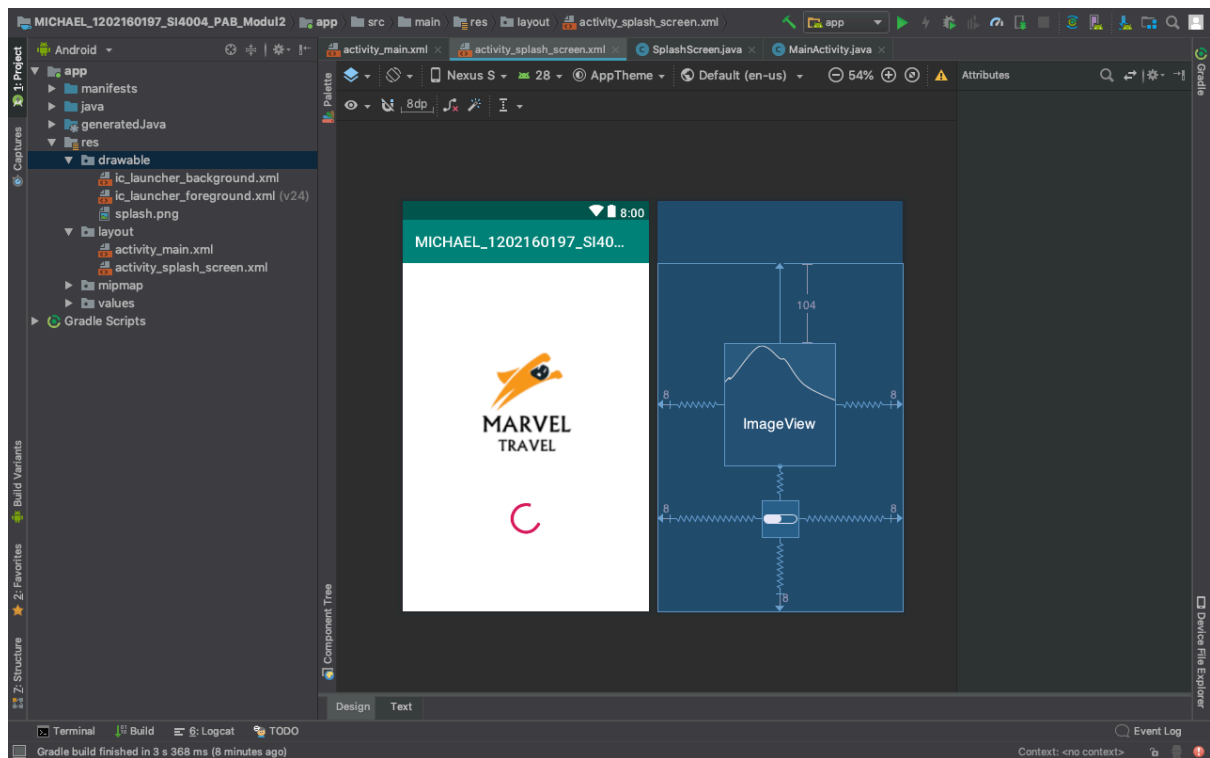
Penjelasan : Membuka folder Drawable



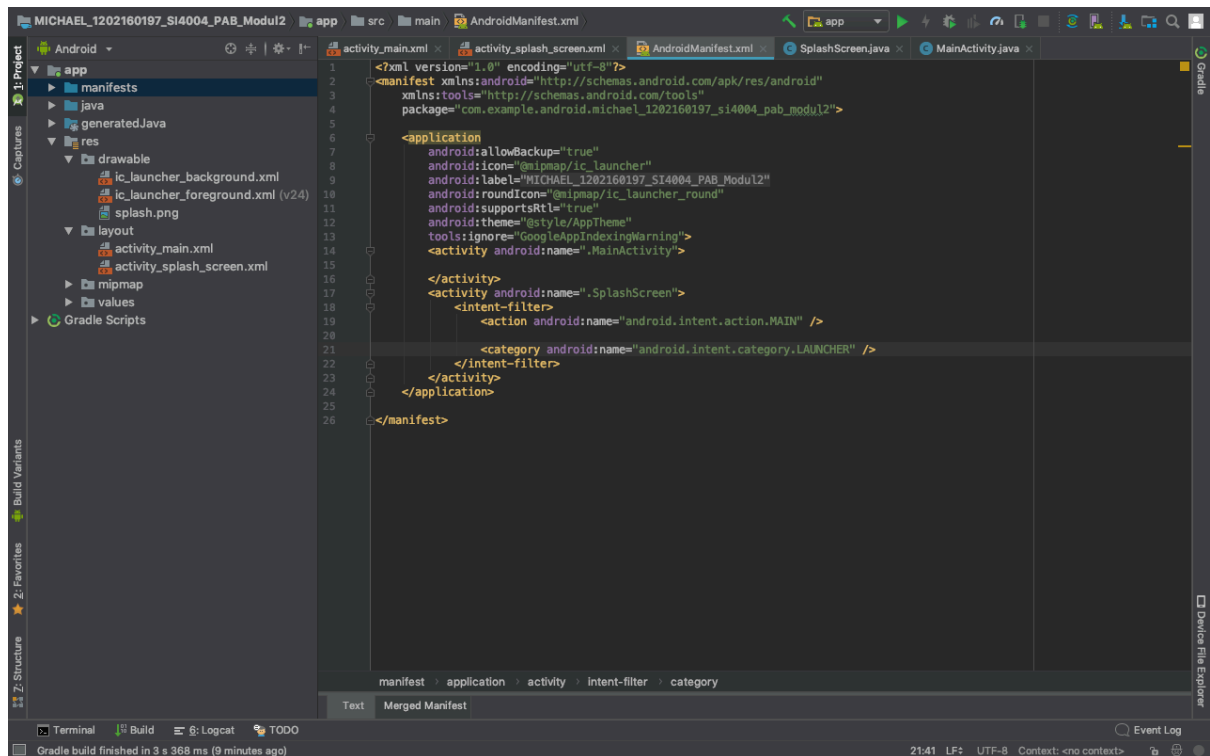
Penjelasan : Meletakan gambar logo Marvel Travel di folder drawable



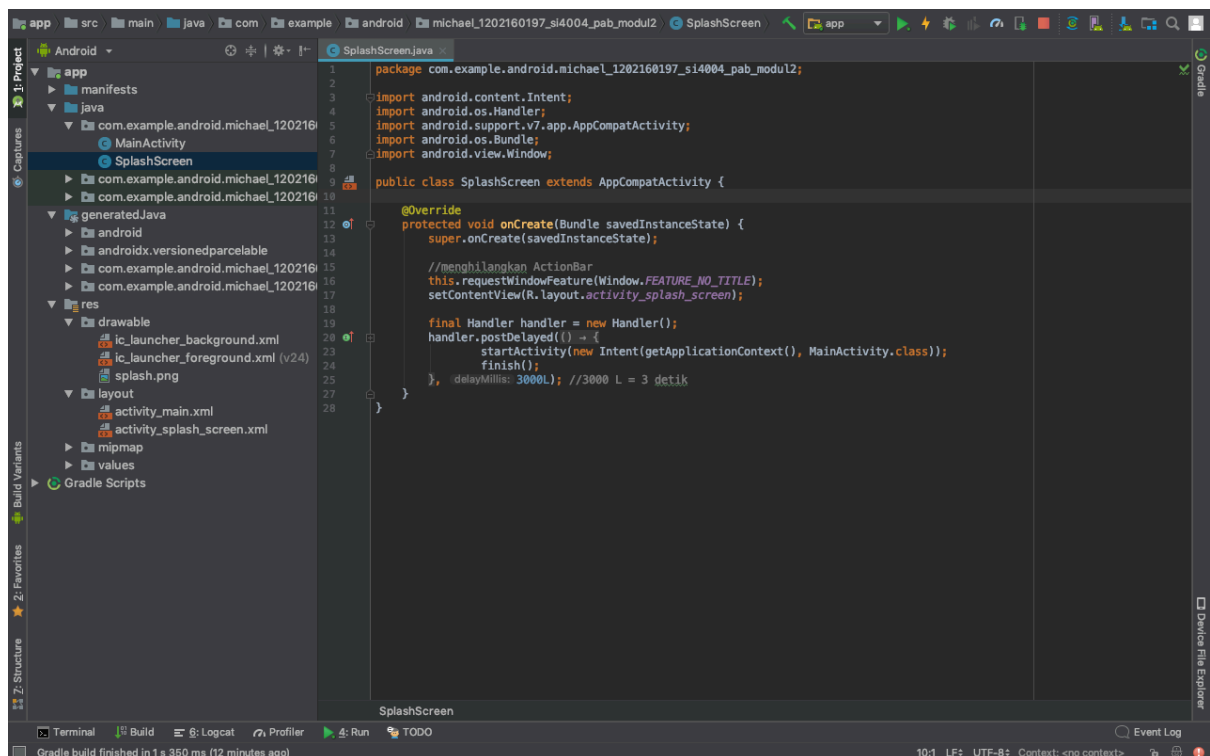
Penjelasan : Membuat Empty Activity baru dengan nama SplashScreen



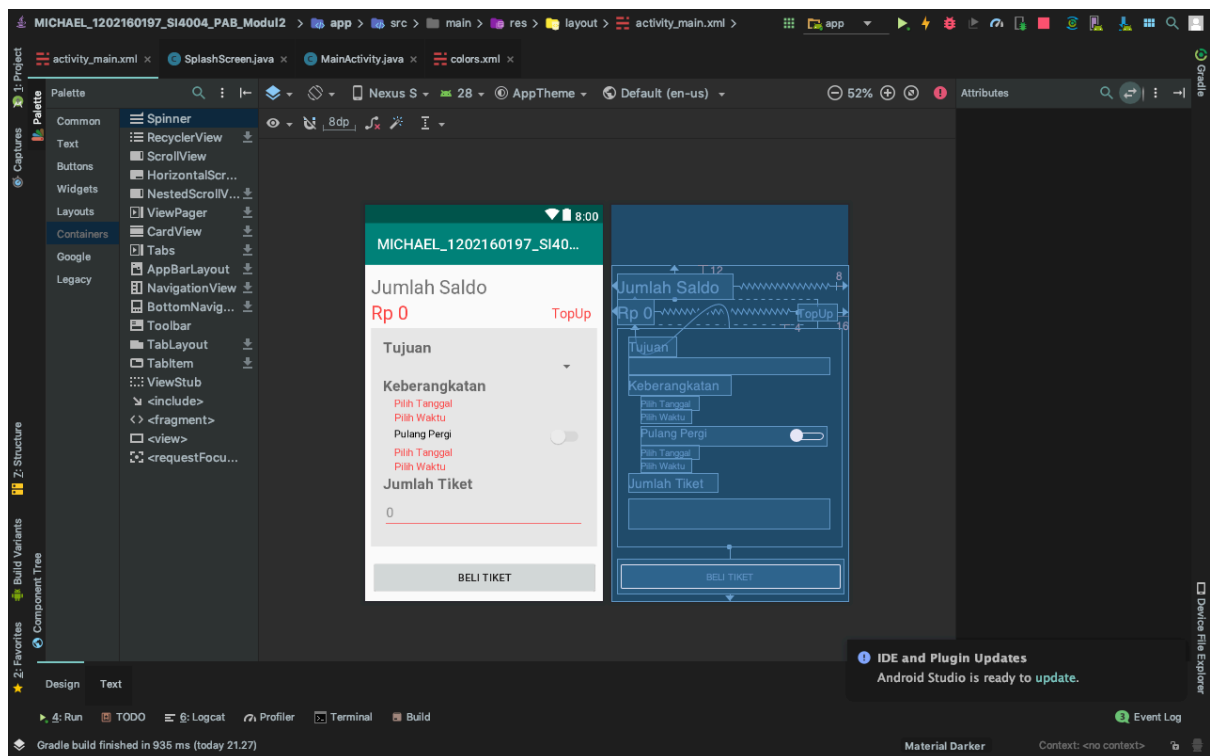
Penjelasan : Membuat desain Splash Screen



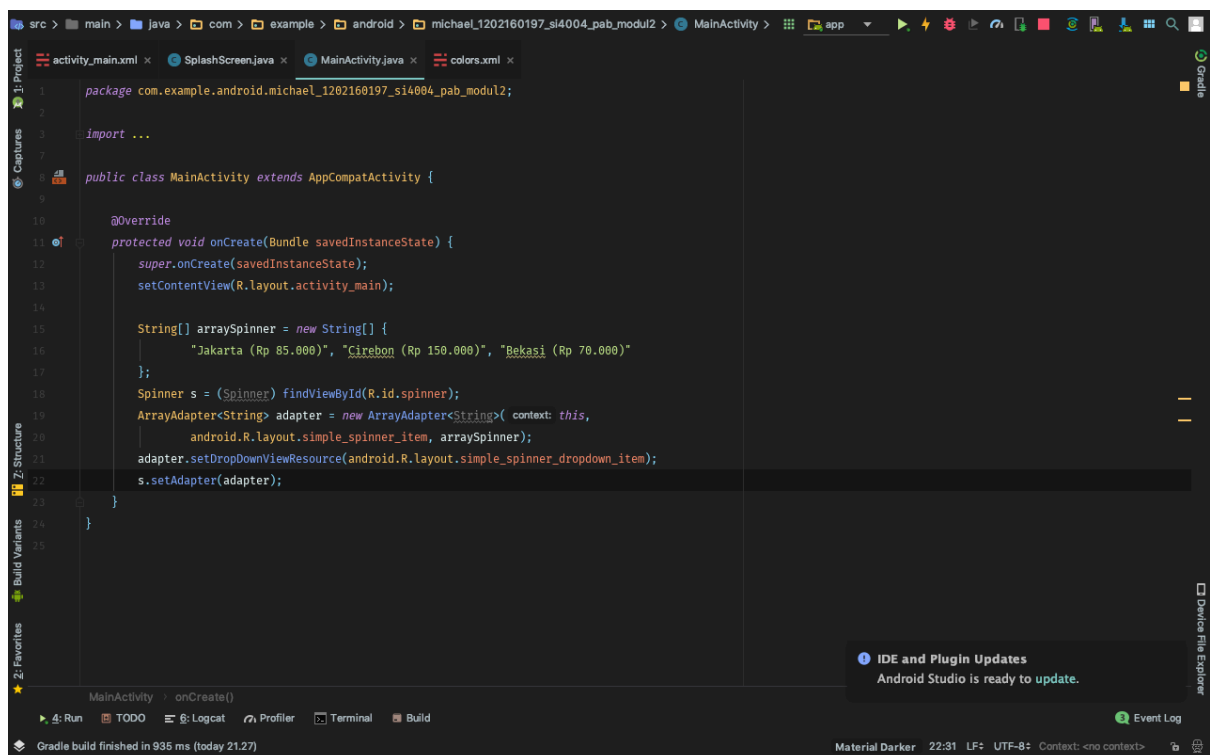
Penjelasan : Mengubah AndroidManifest untuk menjadikan Activity Splash Screen sebagai activity yang tampil saat pertama kali.



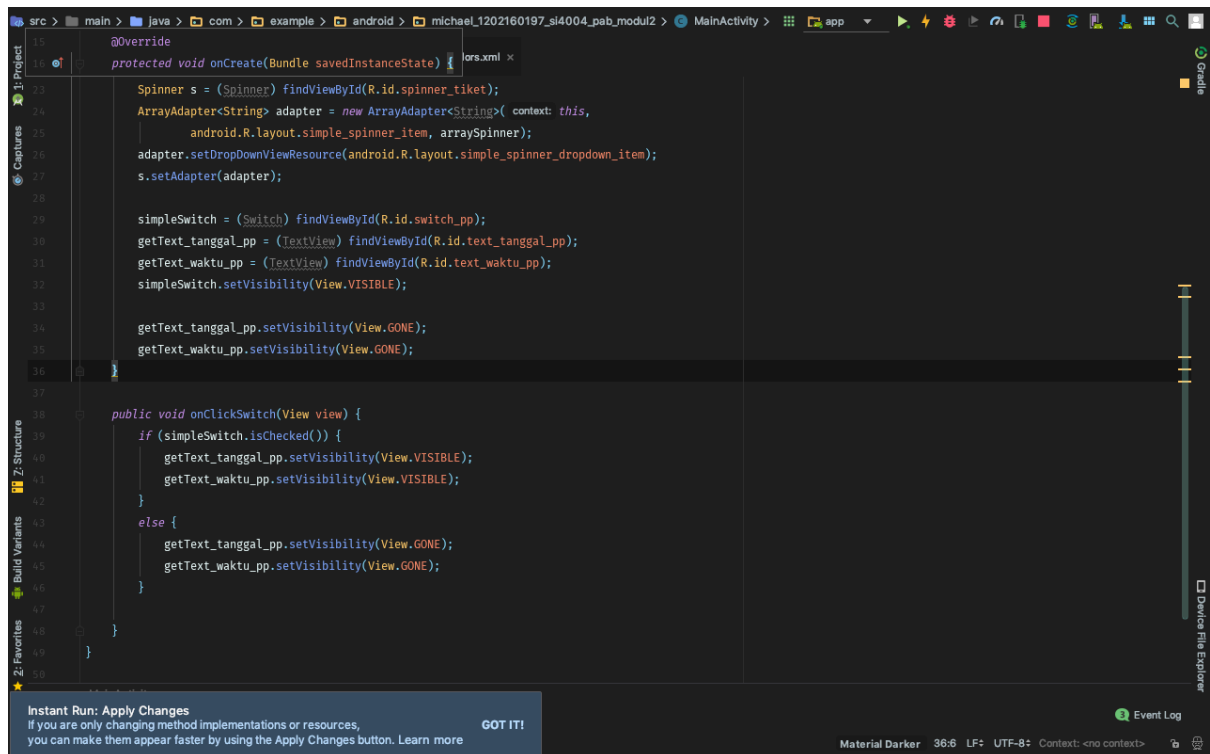
Penjelasan : Membuat delay pada progressBar dan memindahkan activity aktif ke MainActivity



Penjelasan : Membuat desain activity_main.xml



Penjelasan : Membuat isi dari spinner



```
@Override
protected void onCreate(Bundle savedInstanceState) {
    // ...
    Spinner s = (Spinner) findViewById(R.id.spinner_tiket);
    ArrayAdapter<String> adapter = new ArrayAdapter<String>(context: this,
        android.R.layout.simple_spinner_item, arraySpinner);
    adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
    s.setAdapter(adapter);

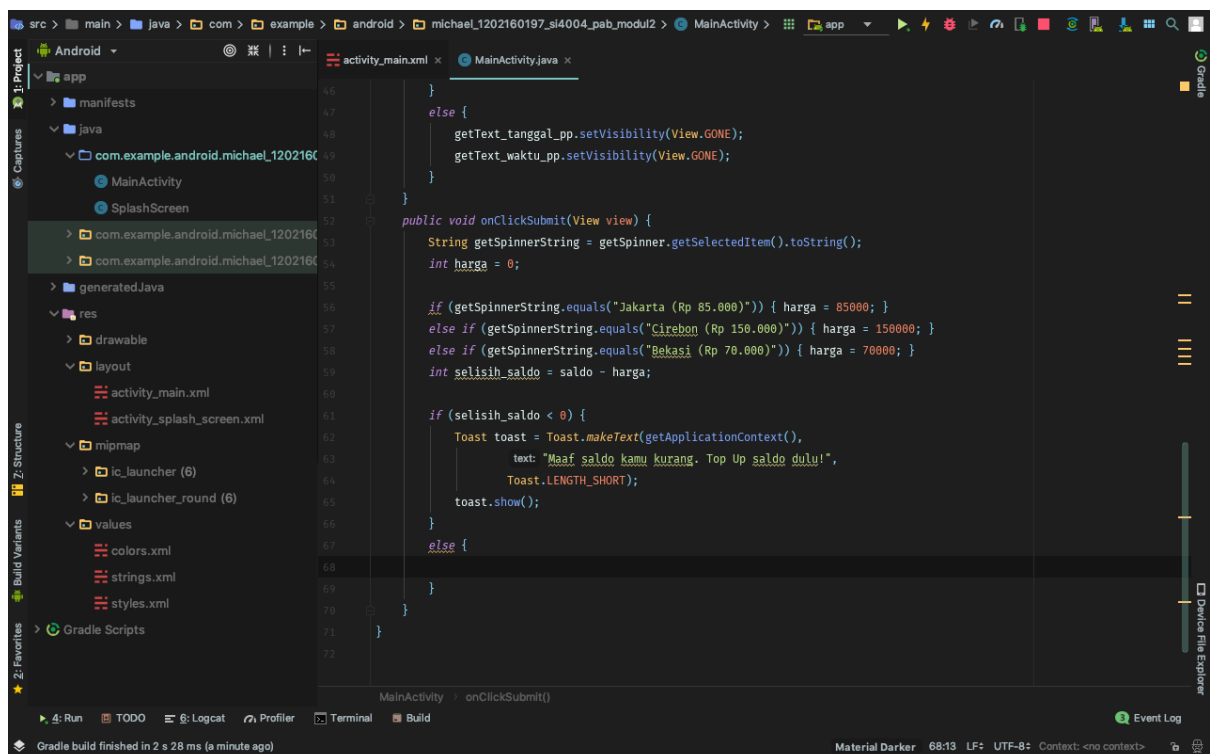
    simpleSwitch = (Switch) findViewById(R.id.switch_pp);
    getText_tanggal_pp = (TextView) findViewById(R.id.text_tanggal_pp);
    getText_waktu_pp = (TextView) findViewById(R.id.text_waktu_pp);
    simpleSwitch.setVisibility(View.VISIBLE);

    getText_tanggal_pp.setVisibility(View.GONE);
    getText_waktu_pp.setVisibility(View.GONE);

    public void onClickSwitch(View view) {
        if (simpleSwitch.isChecked()) {
            getText_tanggal_pp.setVisibility(View.VISIBLE);
            getText_waktu_pp.setVisibility(View.VISIBLE);
        } else {
            getText_tanggal_pp.setVisibility(View.GONE);
            getText_waktu_pp.setVisibility(View.GONE);
        }
    }
}
```

Instant Run: Apply Changes
If you are only changing method implementations or resources, you can make them appear faster by using the Apply Changes button. Learn more GOT IT!

Penjelasan : membuat tanggal dan waktu pulang pergi dapat disembunyikan dan ditampilkan saat switch diklik.



```
else {
    getText_tanggal_pp.setVisibility(View.GONE);
    getText_waktu_pp.setVisibility(View.GONE);
}

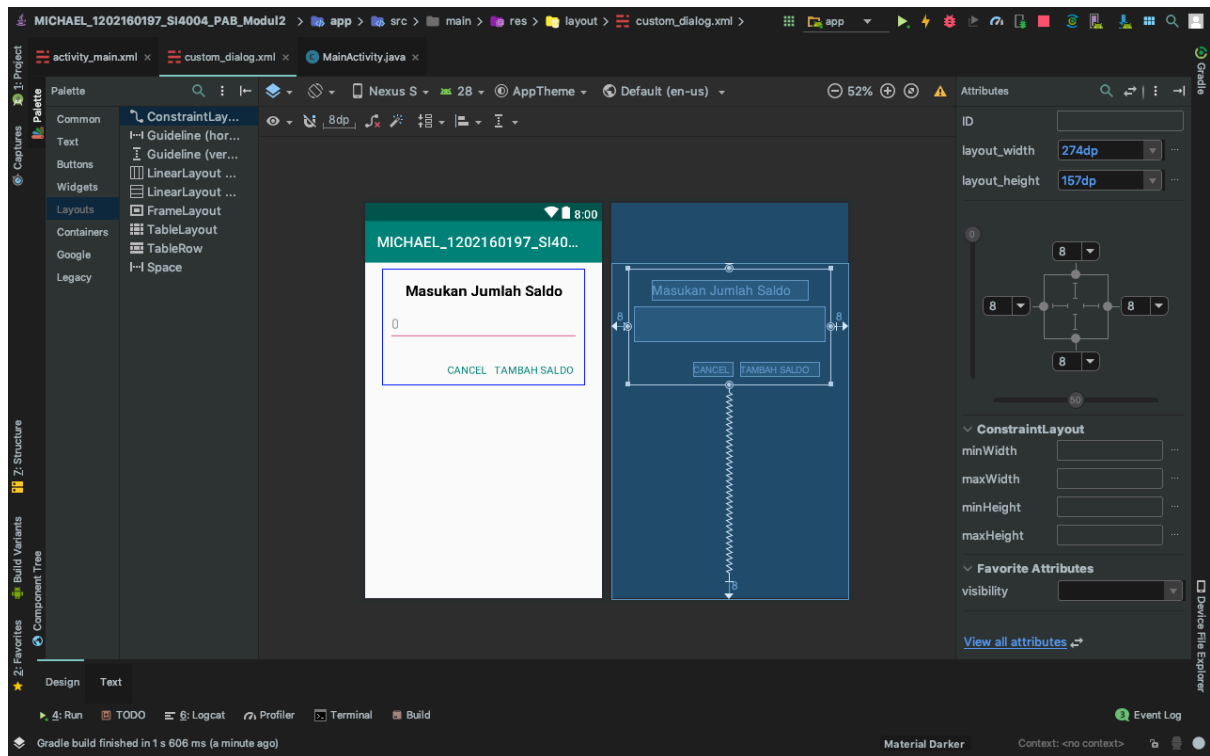
public void onClickSubmit(View view) {
    String getSpinnerString = getSpinner.getSelectedItem().toString();
    int harga = 0;

    if (getSpinnerString.equals("Jakarta (Rp 85.000)")) { harga = 85000; }
    else if (getSpinnerString.equals("Cirebon (Rp 150.000)")) { harga = 150000; }
    else if (getSpinnerString.equals("Bekasi (Rp 70.000)")) { harga = 70000; }
    int selisih_saldo = saldo - harga;

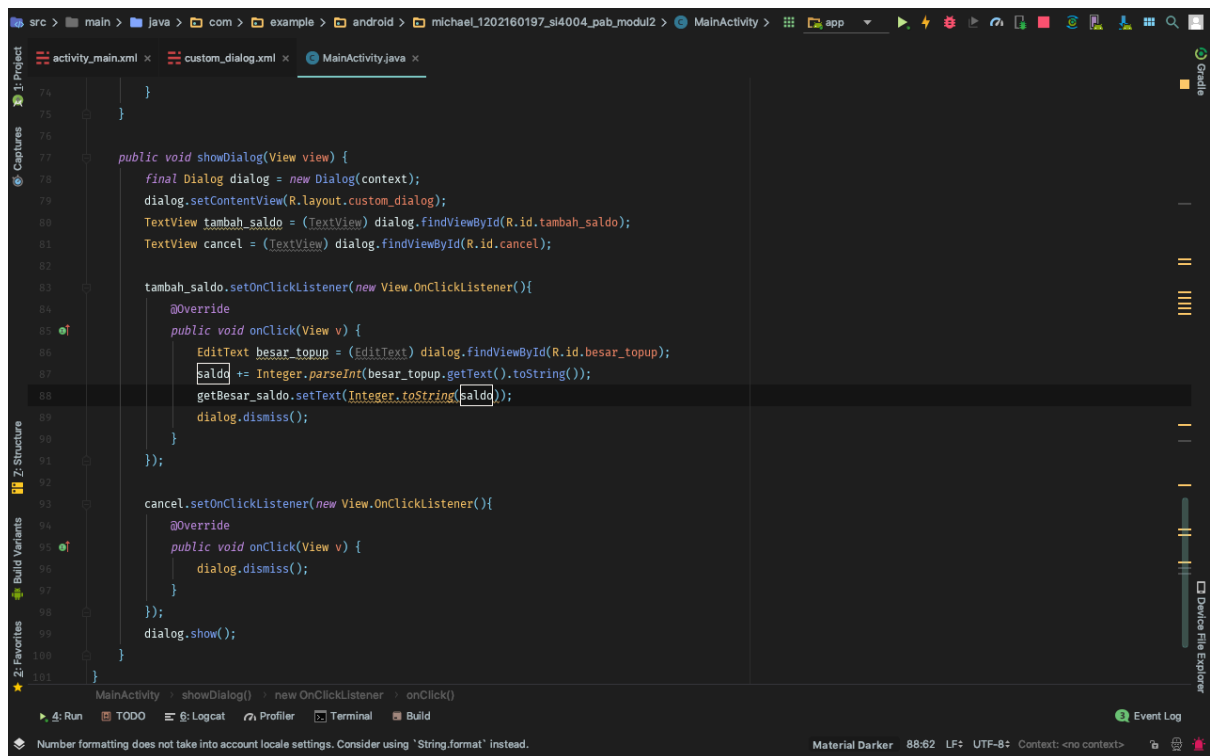
    if (selisih_saldo < 0) {
        Toast toast = Toast.makeText(getApplicationContext(),
            text: "Maaf saldo kamu kurang. Top Up saldo dulu!",
            Toast.LENGTH_SHORT);
        toast.show();
    }
    else {
        // ...
    }
}
```

Gradle build finished in 2 s 28 ms (a minute ago)

Penjelasan : membuat kondisi dimana jika saldo tidak mencukupi untuk membeli tiket maka akan muncul toast untuk menyarankan pengguna menambahkan saldo terlebih dahulu.



Penjelasan : membuat layout baru untuk membuat custom dialog



Penjelasan : fungsi untuk menambah saldo setelah di top up

```
src > main > java > com > example > android > michael_1202160197_sl4004_pab_modul2 > MainActivity > app
activity_main.xml x custom_dialog.xml x MainActivity.java x

76
77 public void showDialog(View view) {
78     final Dialog dialog = new Dialog(context);
79     dialog setContentView(R.layout.custom_dialog);
80     TextView tambah_saldo = (TextView) dialog.findViewById(R.id.tambah_saldo);
81     TextView cancel = (TextView) dialog.findViewById(R.id.cancel);
82
83     tambah_saldo.setOnClickListener(new View.OnClickListener(){
84         @Override
85         public void onClick(View v) {
86             EditText besar_topup = (EditText) dialog.findViewById(R.id.besar_topup);
87             saldo += Integer.parseInt(besar_topup.getText().toString());
88             getBesar_saldo.setText(Integer.toString(saldo));
89             Toast toast = Toast.makeText(getApplicationContext(),
90                 text: "Top Up berhasil!",
91                 Toast.LENGTH_SHORT);
92             toast.show();
93             dialog.dismiss();
94         }
95     });
96
97     cancel.setOnClickListener(new View.OnClickListener(){
98         @Override
99         public void onClick(View v) {
100             dialog.dismiss();
101         }
102     });
103 }

Instant Run: Apply Changes
If you are only changing method implementations or resources,
you can make them appear faster by using the Apply Changes button. Learn more GOT IT!

IDE and Plugin Updates
Android Studio is ready to update.

Material Darker 92:30 LF: UTF-8 Context: <no context> Event Log
```

Penjelasan : menampilkan toast “Top Up berhasil!”

```
src > main > java > com > example > android > michael_1202160197_sl4004_pab_modul2 > MainActivity > app
activity_main.xml x custom_dialog.xml x MainActivity.java x

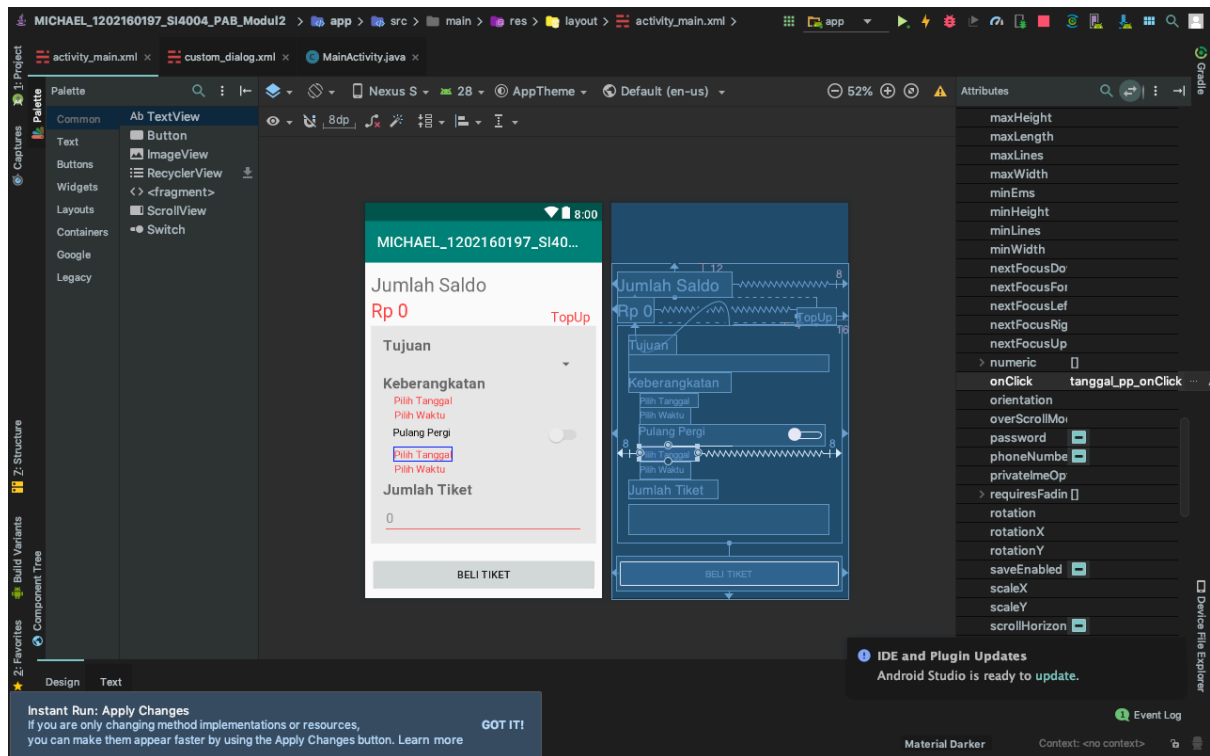
121 public void tanggal_onClick(View view){
122     Calendar newCalendar = Calendar.getInstance();
123     datePickerDialog = new DatePickerDialog( context: this, new DatePickerDialog.OnDateSetListener() {
124
125         @Override
126         public void onDateSet(DatePicker view, int year, int monthOfYear, int dayOfMonth) {
127             Calendar newDate = Calendar.getInstance();
128             newDate.set(year, monthOfYear, dayOfMonth);
129             getText_tanggal.setText(dateFormatter.format(newDate.getTime()));
130         }
131     },newCalendar.get(Calendar.YEAR), newCalendar.get(Calendar.MONTH), newCalendar.get(Calendar.DAY_OF_MONTH));
132     datePickerDialog.show();
133 }
134
135 public void tanggal_pp_onClick(View view){
136     Calendar newCalendar = Calendar.getInstance();
137     datePickerDialog = new DatePickerDialog( context: this, new DatePickerDialog.OnDateSetListener() {
138
139         @Override
140         public void onDateSet(DatePicker view, int year, int monthOfYear, int dayOfMonth) {
141             Calendar newDate = Calendar.getInstance();
142             newDate.set(year, monthOfYear, dayOfMonth);
143             getText_tanggal_pp.setText(dateFormatter.format(newDate.getTime()));
144         }
145     },newCalendar.get(Calendar.YEAR), newCalendar.get(Calendar.MONTH), newCalendar.get(Calendar.DAY_OF_MONTH));
146     datePickerDialog.show();
147 }
148 }

Instant Run: Apply Changes
If you are only changing method implementations or resources,
you can make them appear faster by using the Apply Changes button. Learn more GOT IT!

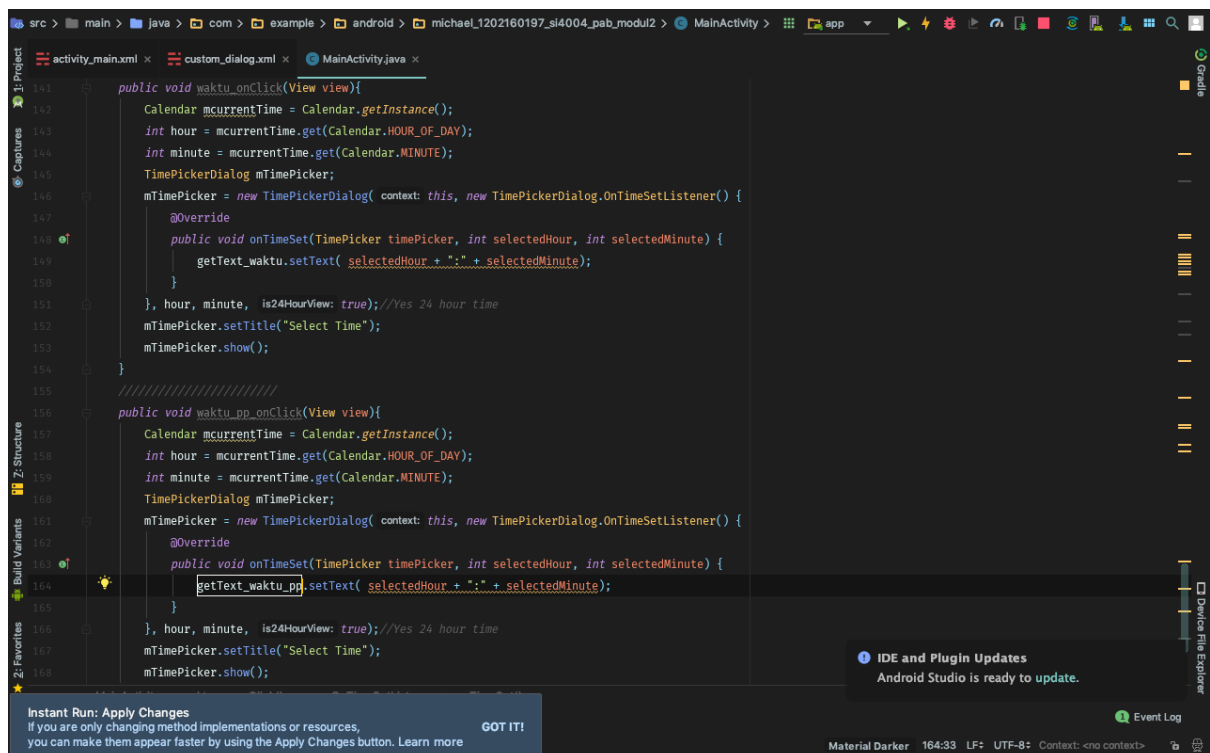
IDE and Plugin Updates
Android Studio is ready to update.

Material Darker 15:15 LF: UTF-8 Context: <no context> Event Log
```

Penjelasan : membuat fungsi menampilkan date picker



Penjelasan : membuat text view saat di klik menjalankan fungsi untuk menampilkan date picker



Penjelasan : membuat fungsi untuk menambahkan time picker.

```
src > main > java > com > example > android > michael_1202160197_sl4004_pab_modul2 > MainActivity > app
activity_main.xml x MainActivity.java x

80
81     int harga = 0;
82
83     if (getSpinnerString.equals("Jakarta (Rp 85.000)")) { harga = 85000; }
84     else if (getSpinnerString.equals("Cirebon (Rp 150.000)")) { harga = 150000; }
85     else if (getSpinnerString.equals("Bekasi (Rp 70.000)")) { harga = 70000; }
86
87     String Stiket = get_jumlah_tiket.getText().toString();
88     if (Stiket.equals("")){
89         Toast toast = Toast.makeText(getApplicationContext(),
90             text: "Tolong masukan jumlah tiket!",
91             Toast.LENGTH_SHORT);
92         toast.show();
93     }
94     else {
95         int Itiket = Integer.parseInt(Stiket);
96         int selisih_saldo = saldo - harga*Itiket;
97         if (selisih_saldo < 0) {
98             Toast toast = Toast.makeText(getApplicationContext(),
99                 text: "Maaf, saldo kamu kurang. Top Up saldo dulu!",
100                 Toast.LENGTH_SHORT);
101             toast.show();
102         } else {
103             saldo = selisih_saldo;
104             getBesar_saldo.setText(Integer.toString(saldo));
105         }
106     }
107 }

MainActivity > onClickSubmit()

Run TODO Logcat Profiler Terminal Build
Gradle build finished in 1 s 967 ms (2 minutes ago)

IDE and Plugin Updates
Android Studio is ready to update.
```

Penjelasan : menambahkan fitur untuk mengkalikan harga sesuai dengan tiket yang dibeli dan menambahkan fitur agar jumlah saldo berkurang saat tiket dibeli.

```
src > main > java > com > example > android > michael_1202160197_sl4004_pab_modul2 > MainActivity > app
activity_main.xml x MainActivity.java x

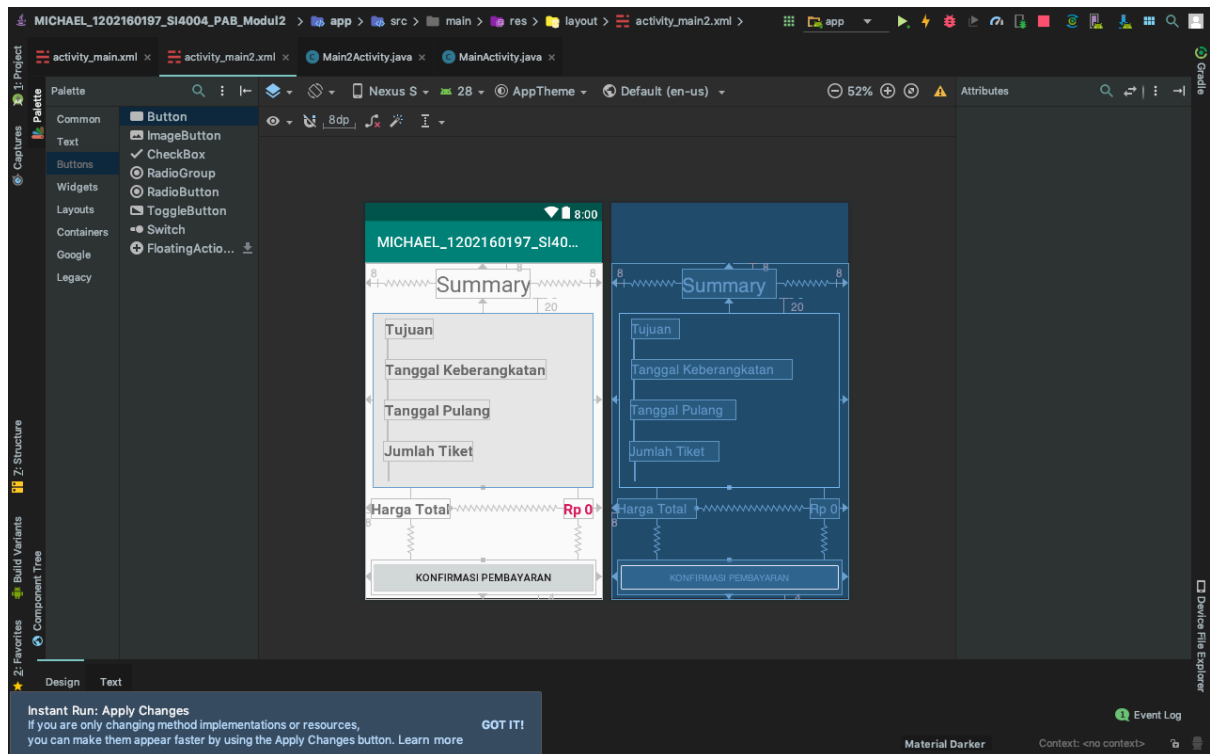
77
78     public void onClickSubmit(View view) {
79         String getSpinnerString = getSpinner.getSelectedItem().toString();
80
81         int harga = 0;
82
83         if (getSpinnerString.equals("Jakarta (Rp 85.000)")) { harga = 85000; }
84         else if (getSpinnerString.equals("Cirebon (Rp 150.000)")) { harga = 150000; }
85         else if (getSpinnerString.equals("Bekasi (Rp 70.000)")) { harga = 70000; }
86
87         if (simpleSwitch.isChecked()) {
88             harga *= 2;
89         }
90
91         String Stiket = get_jumlah_tiket.getText().toString();
92         if (Stiket.equals("")){
93             Toast toast = Toast.makeText(getApplicationContext(),
94                 text: "Tolong masukan jumlah tiket!",
95                 Toast.LENGTH_SHORT);
96             toast.show();
97         }
98         else {
99             int Itiket = Integer.parseInt(Stiket);
100             int selisih_saldo = saldo - harga*Itiket;
101             if (selisih_saldo < 0) {
102                 Toast toast = Toast.makeText(getApplicationContext(),
103                     text: "Maaf, saldo kamu kurang. Top Up saldo dulu!",
104                     Toast.LENGTH_SHORT);
105             }
106         }
107     }
108 }

MainActivity > onClickSubmit()

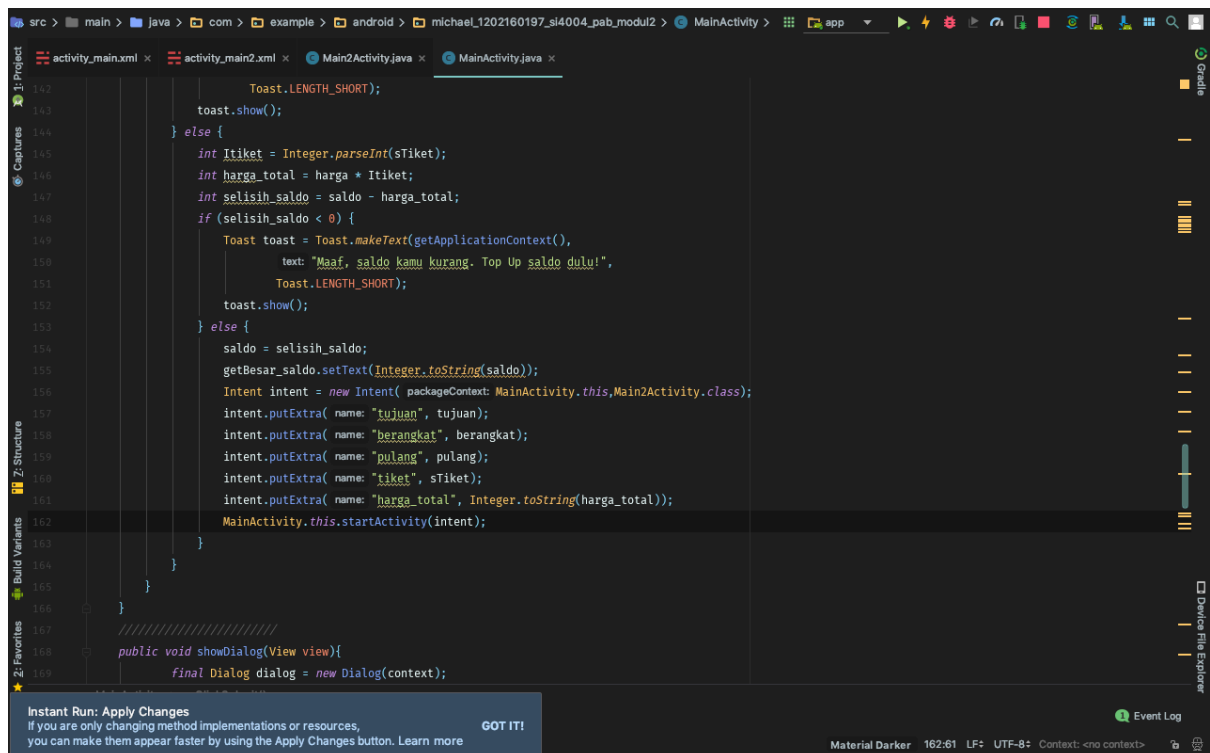
Run TODO Logcat Profiler Terminal Build
Illegal character: ( (U+2039)

IDE and Plugin Updates
Android Studio is ready to update.
```

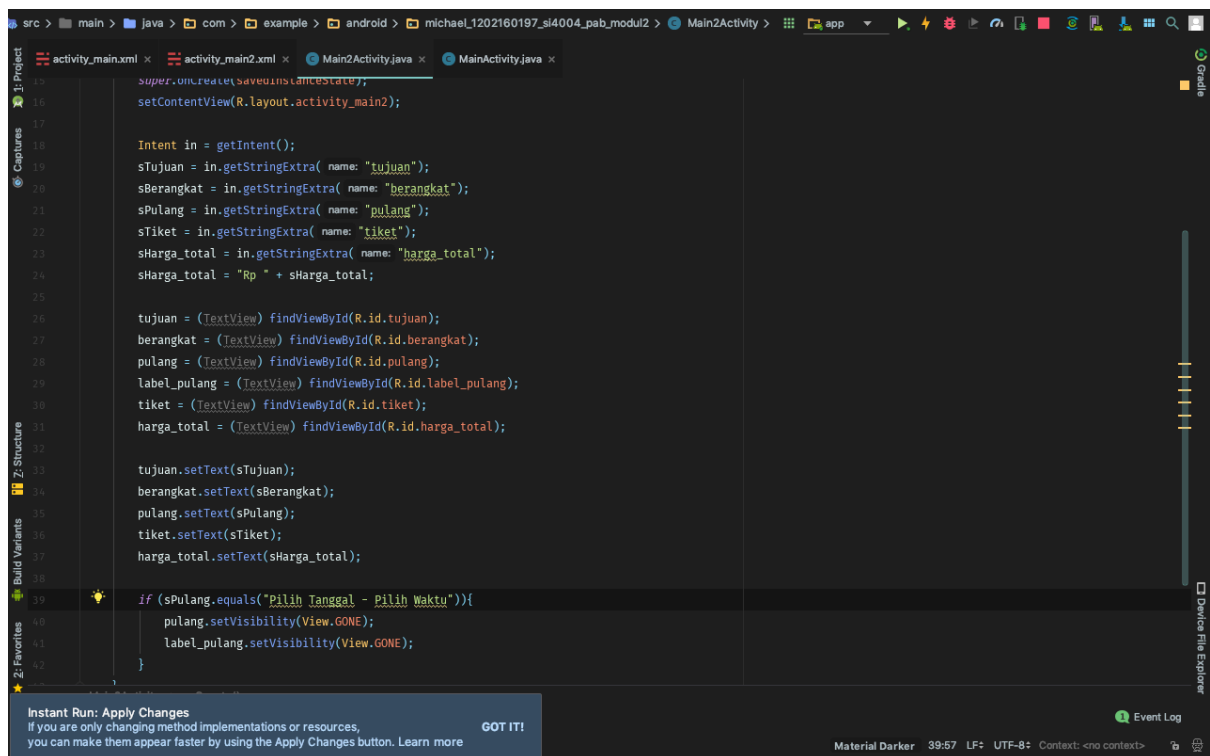
Penjelasan : menambah fitur agar harga dikali 2 ketika pulang pergi dalam keadaan checked.



Penjelasan : membuat activity baru dan membuat layoutnya

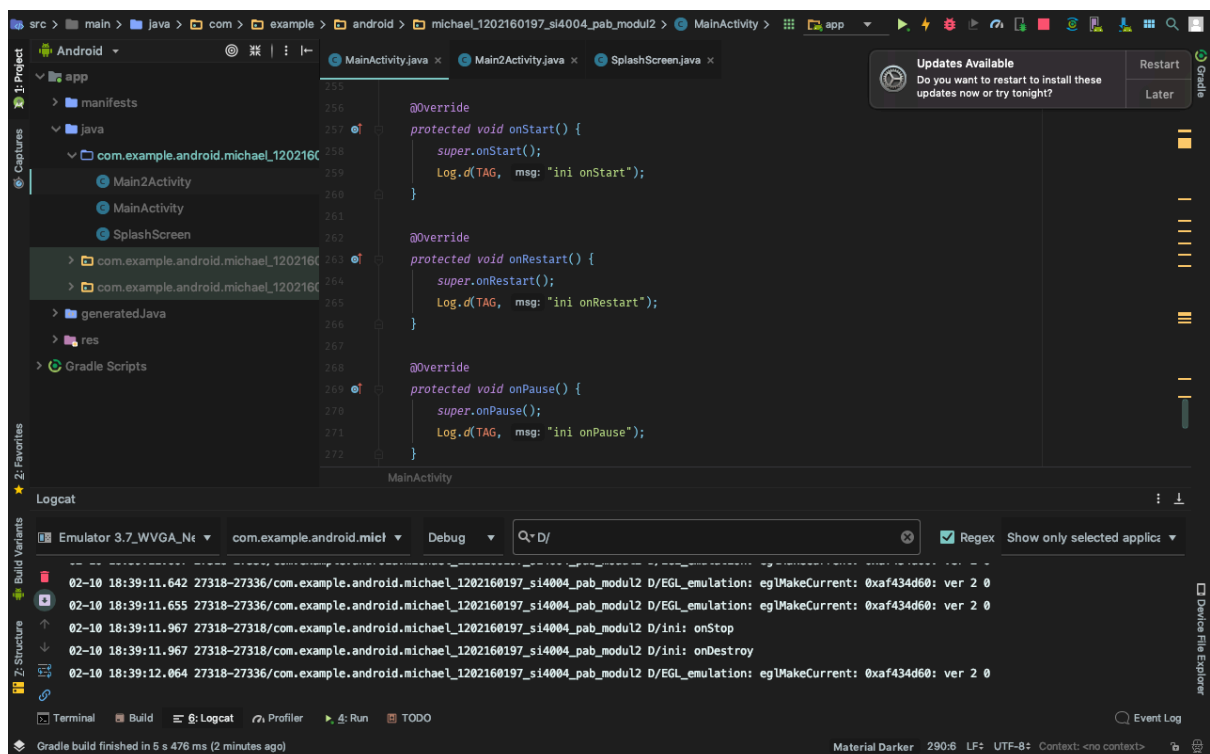


Penjelasan : menambahkan baris kode untuk berpindah activity dan untuk melempar variable ke activity lain.



```
src > main > java > com > example > android > michael_1202160197_si4004_pab_modul2 > MainActivity > app
Project: activity_main.xml x activity_main2.xml x MainActivity.java x MainActivity.java x
15: super.onCreate(savedInstanceState);
16: setContentView(R.layout.activity_main2);
17:
18: Intent in = getIntent();
19: sTujuan = in.getStringExtra( name: "tujuan");
20: sBerangkat = in.getStringExtra( name: "berangkat");
21: sPulang = in.getStringExtra( name: "pulang");
22: sTiket = in.getStringExtra( name: "tiket");
23: sHarga_total = in.getStringExtra( name: "harga_total");
24: sHarga_total = "Rp " + sHarga_total;
25:
26: tujuan = (TextView) findViewById(R.id.tujuan);
27: berangkat = (TextView) findViewById(R.id.berangkat);
28: pulang = (TextView) findViewById(R.id.pulang);
29: label_pulang = (TextView) findViewById(R.id.label_pulang);
30: tiket = (TextView) findViewById(R.id.tiket);
31: harga_total = (TextView) findViewById(R.id.harga_total);
32:
33: tujuan.setText(sTujuan);
34: berangkat.setText(sBerangkat);
35: pulang.setText(sPulang);
36: tiket.setText(sTiket);
37: harga_total.setText(sHarga_total);
38:
39: if (sPulang.equals("Pilih Tanggal - Pilih Waktu")){
40:     pulang.setVisibility(View.GONE);
41:     label_pulang.setVisibility(View.GONE);
42: }
43:
Instant Run: Apply Changes
If you are only changing method implementations or resources,
you can make them appear faster by using the Apply Changes button. Learn more GOT IT!
Material Darker 39:57 LF: UTF-8: Context: <no context>
```

Penjelasan : membuat baris kode untuk mengubah isi dari textview yang ada pada Summary



```
src > main > java > com > example > android > michael_1202160197_si4004_pab_modul2 > MainActivity > app
Project: Android
  app
    manifests
    java
      com.example.android.michael_1202160197_si4004_pab_modul2
        MainActivity
        MainActivity
        SplashScreen
      generatedJava
      res
      Gradle Scripts
  Favorites
  Build Variants
  Z: Structure
  Z: Favorites
  Logcat
    Emulator 3.7_WVGA_Ne
    com.example.android.micel
    Debug
    Q: D/
    [x] Regex
    Show only selected applica
  Terminal
  Build
  Logcat
  Profiler
  Run
  TODO
  Event Log
  Device File Explorer
  Updates Available
  Do you want to restart to install these updates now or try tonight?
  Restart
  Later
  MainActivity.java x MainActivity.java x SplashScreen.java x
255:
256: @Override
257: protected void onStart() {
258:     super.onStart();
259:     Log.d(TAG, msg: "ini onStart");
260: }
261:
262: @Override
263: protected void onRestart() {
264:     super.onRestart();
265:     Log.d(TAG, msg: "ini onRestart");
266: }
267:
268: @Override
269: protected void onPause() {
270:     super.onPause();
271:     Log.d(TAG, msg: "ini onPause");
272: }
273:
Logcat
02-10 18:39:11.642 27318-27336/com.example.android.michael_1202160197_si4004_pab_modul2 D/EGL_emulation: eglMakeCurrent: 0xaf434d60: ver 2 0
02-10 18:39:11.655 27318-27336/com.example.android.michael_1202160197_si4004_pab_modul2 D/EGL_emulation: eglMakeCurrent: 0xaf434d60: ver 2 0
02-10 18:39:11.967 27318-27318/com.example.android.michael_1202160197_si4004_pab_modul2 D/ini: onStop
02-10 18:39:11.967 27318-27318/com.example.android.michael_1202160197_si4004_pab_modul2 D/ini: onDestroy
02-10 18:39:12.064 27318-27336/com.example.android.michael_1202160197_si4004_pab_modul2 D/EGL_emulation: eglMakeCurrent: 0xaf434d60: ver 2 0
Gradle build finished in 5 s 476 ms (2 minutes ago)
Material Darker 29:06 LF: UTF-8: Context: <no context>
```

Penjelasan : baris kode untuk membuat cat log.