Mobil Programlama

Hafta 14

Temel Konuşma Kalıpları
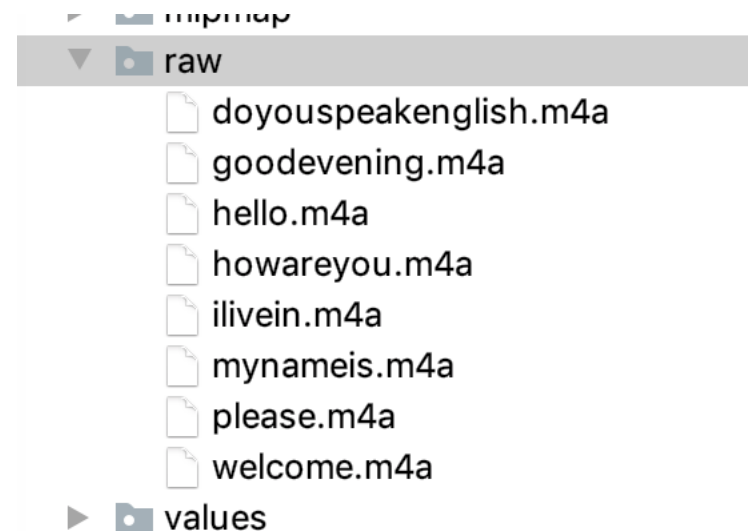
- https://ielanguages.com/frenchphrases.html

Dr. M. C. Kasapbasi
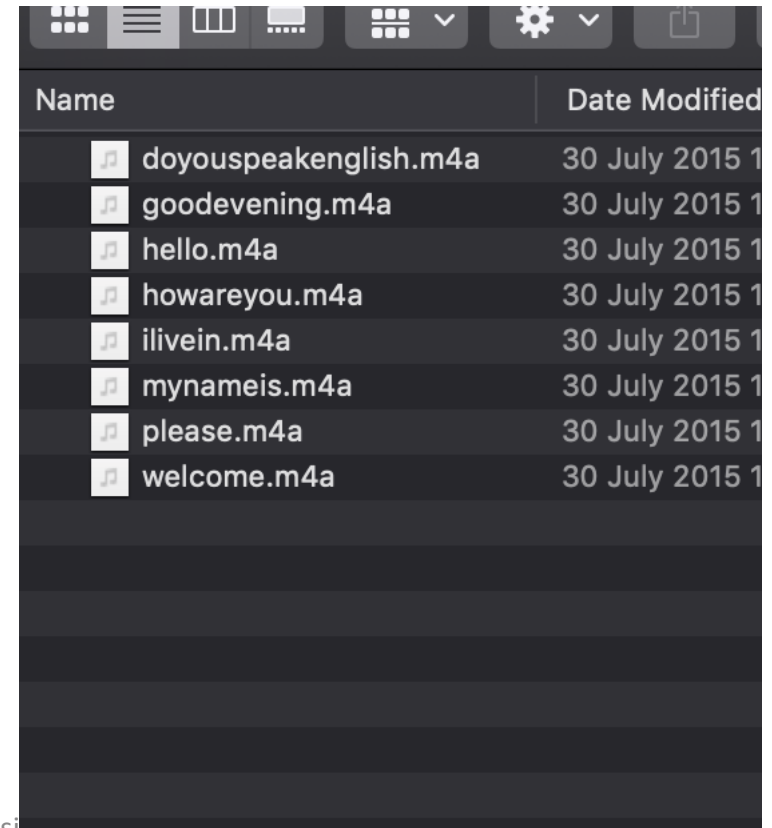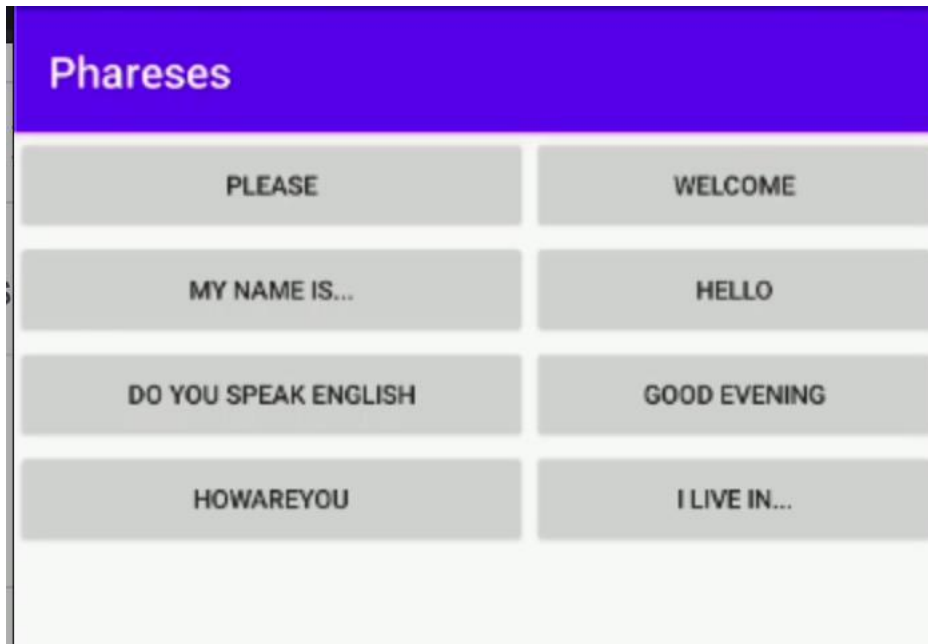
Setup

- Raw Folder Copy mp3 files there

Layout--TableLayout

```xml
<?xml version="1.0" encoding="utf-8"?>

<TableLayout
    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"
    tools:context=".MainActivity"
    android:stretchColumns="*"

>

    <TableRow
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <Button
            android:id="@+id/please"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_column="0"
            android:text="Please"
            android:onClick="myClicked"/>

        <Button
            android:id="@+id/welcome"
            android:layout_width="match_parent"
            android:layout_column="1"
            android:layout_height="match_parent"
            android:text="Welcome"
            android:onClick="myClicked"/>
```

```java
int id=v.getId();
String ourId= "";
ourId=v.getResources().getResourceEntryName(id);

    Log.d( tag: "Tapped", msg: "Nicely to "+ ourId );
```

```
org.kasapbasi.phareses (25646)  ▼      Verbose  ▼      Q▾ Tapped
```

```
5646/org.kasapbasi.phareses D/Tapped: Nicely to doyouspeak
5646/org.kasapbasi.phareses D/Tapped: Nicely to mynameis
5646/org.kasapbasi.phareses D/Tapped: Nicely to please
5646/org.kasapbasi.phareses D/Tapped: Nicely to please
5646/org.kasapbasi.phareses D/Tapped: Nicely to mynameis
5646/org.kasapbasi.phareses D/Tapped: Nicely to hello
```

```java
int resId= getResources().getIdentifier(ourId, defType: "raw", defPackage: "org.kasapbasi.phareses");
MediaPlayer mp= MediaPlayer.create( context: this,resId);
mp.start();
```

Permanent Storage
Shared Preferences

```java
12      @Override
13 ●↑   protected void onCreate(Bundle savedInstanceState) {
14          super.onCreate(savedInstanceState);
15          setContentView(R.layout.activity_main);
16          SharedPreferences myPref= this.getSharedPreferences( name: "org.kasapbasi.sharedpref", Context.MODE_PRIVATE);
17
18          myPref.edit().putString("username","mc").apply();
19
20          String username= myPref.getString( key: "username", defValue: "");
21          Log.d( tag: "PREF",username);
22      }
23  }
```

g.kasapbasi.**sharedpref** (28404 ▼)   [Debug ▼]   [Q▾ mc]

/org.kasapbasi.sharedpref D/PREF: mc

```java
        💡   // myPref.edit().putString("username","mc").apply();

             String username= myPref.getString( key: "username", defValue: "");
             Log.d( tag: "PREF",username);
         }
     }
```

MainActivity › onCreate()

asi.**sharedpref** (28639 ▼)   [Debug ▼]   [Q▾ mc   ✕]

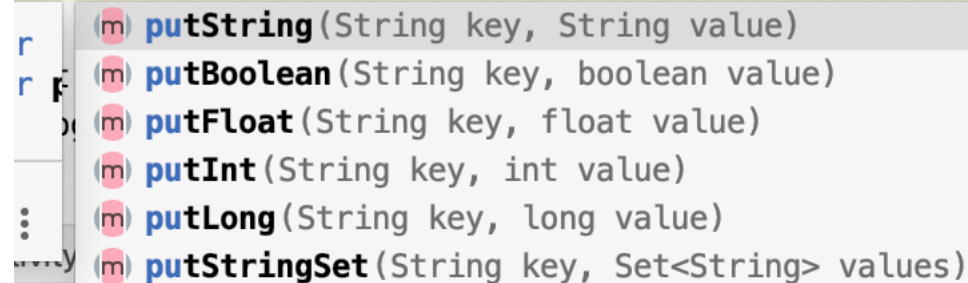apbasi.sharedpref D/PREF: mc

Yorum Satırı yapalım çalıştıralım

SharedPreference içine ArrayList Koyma

- SP sadece belirli biçimde değerleri saklanmasına izin veriyor Bu sebple bir şekilde Serileştirilmesine ihtiyaç vardır.

```
// myPref.edit().putString("username","mc").apply();
edit().pu
  (m) putString(String key, String value)
  (m) putBoolean(String key, boolean value)
  (m) putFloat(String key, float value)
  (m) putInt(String key, int value)
  (m) putLong(String key, long value)
  (m) putStringSet(String key, Set<String> values)
  ^↓ and ^↑ will move caret down and up in the editor  Next Tip
```

- Yeni bir Sınıf ekliyoruz ObjectSerializer

- Apache tarafından hazırlanan kod Androide uygun hale getirilmiştir.
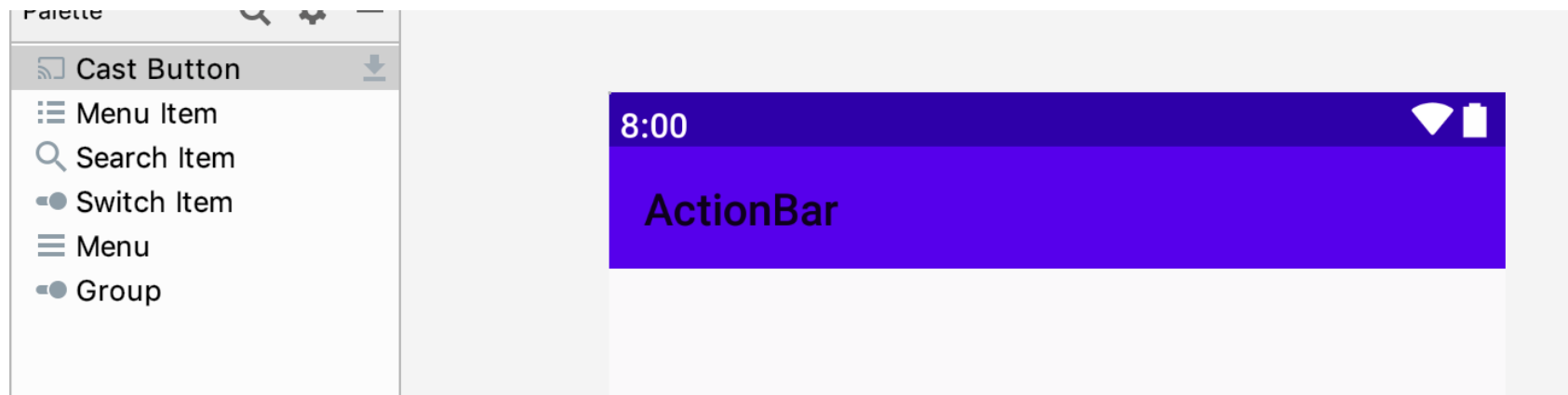
YAZMA

```java
ArrayList<String> myFriends= new ArrayList<>();
myFriends.add("SELÇUK");
myFriends.add("ESRA");


try {
    myPref.edit().putString("friends", ObjectSerializer.serialize(myFriends)).apply();


} catch (IOException e) {
    e.printStackTrace();
}
```
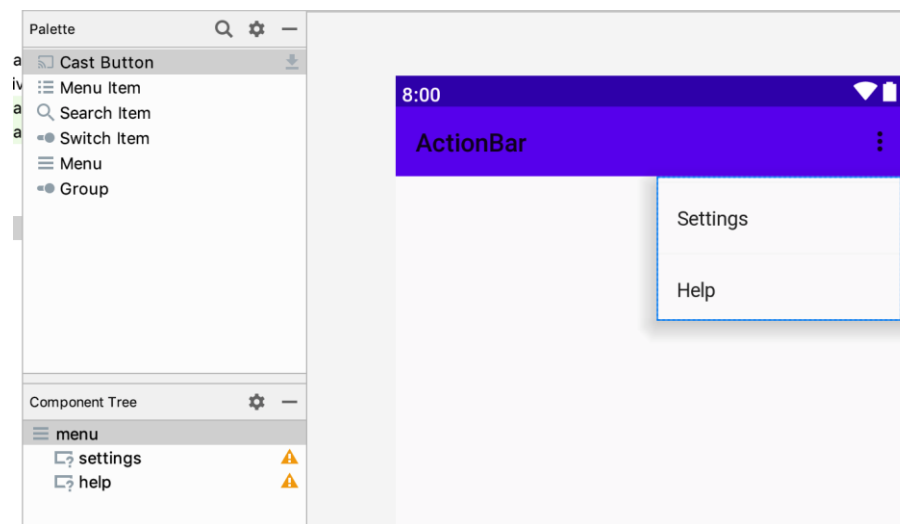
OKUMA

```java
ArrayList<String> fromPref= new ArrayList<>();


try {
    fromPref= (ArrayList<String>) ObjectSerializer.deserialize(myPref.getString( key: "friends",

            ObjectSerializer.serialize(new ArrayList<String>())));
} catch (IOException e) {
    e.printStackTrace();
}

Log.d( tag: "NewFriends",fromPref.toString());
```

ActionBAR

- Android içinde default bir menu yoktur eklemek gerekir Önceden vardı.

- Öncelikle Bir Layout eklenir. res içine

  – Menu ,Klasörü eklenir

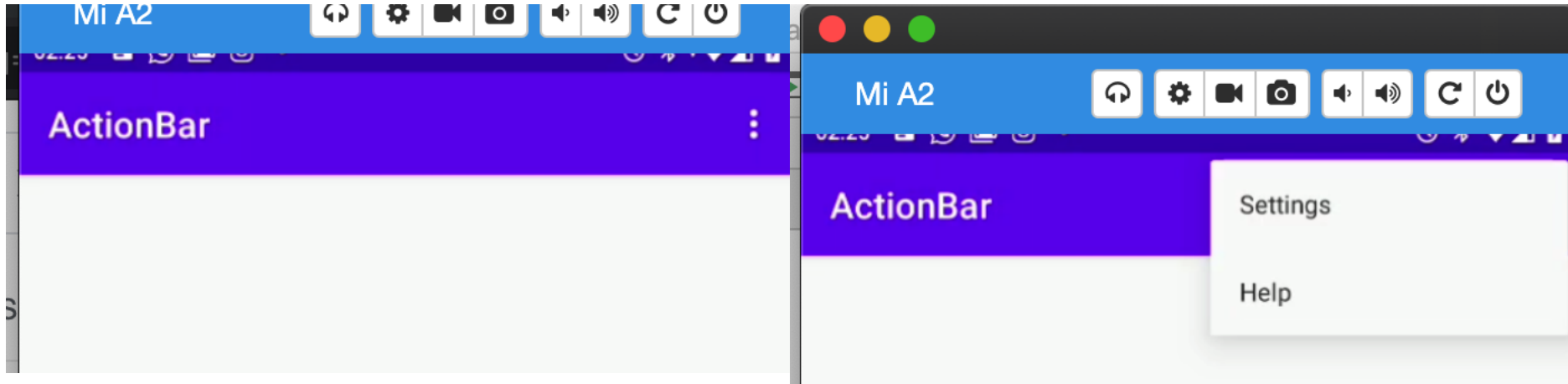   - Onun içine Menu resource file eklenir

Palette	🔍 ⚙ ━
📶 Cast Button	⬇
☰ Menu Item	
🔍 Search Item	
⊶ Switch Item	
☰ Menu	
⊶ Group	

```
8:00                              📶▮
ActionBar                         ⋮

                    Settings

                    Help
```

Component Tree	⚙ ━
☰ menu	
⤷ settings	⚠
⤷ help	⚠

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item  android:title="Settings" android:id="@+id/settings"></item>
    <item android:title="Help" android:id="@+id/help"></item>
</menu>
```

```java
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    MenuInflater inf= getMenuInflater();
    inf.inflate(R.menu.main_menu,menu);
    return super.onCreateOptionsMenu(menu);
}


@Override
public boolean onOptionsItemSelected(MenuItem item) {
    super.onOptionsItemSelected(item);

    switch (item.getItemId()){

        case R.id.settings: Log.d( tag: "AB", msg: "Settings");  return true;
        case R.id.help: Log.d( tag: "AB", msg: "Help"); return  true;
        default:
            return false;
    }
}
```
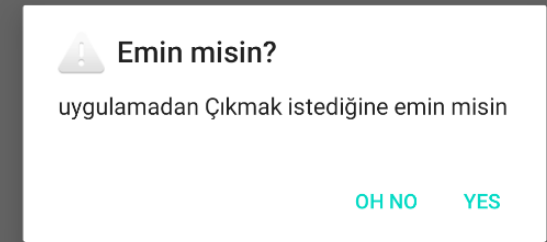
Dr. M. C. Kasapbasi

Alert Dialog

⚠ **Emin misin?**

uygulamadan Çıkmak istediğine emin misin

OH NO   YES

●

```java
AlertDialog ald = new AlertDialog.Builder( context: this)
        .setTitle("Emin misin?")
        .setIcon(android.R.drawable.ic_dialog_alert)
        .setMessage("uygulamadan Çıkmak istediğine emin misin")
        .setPositiveButton( text: "Yes", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                Toast.makeText( context: MainActivity.this, text: "Çıkıyoruzz",Toast.LENGTH_LONG).show();
            }
        })
        .setNegativeButton( text: "oh No", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                Toast.makeText( context: MainActivity.this, text: "Çıkmayruz",Toast.LENGTH_LONG).show();

            }
        })
        .show();
```

My Notes

- Listview Ekle
  - OnCreate de yakala

```java
public class MainActivity extends AppCompatActivity {
    ArrayList<String> notes= new ArrayList<>();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ListView v= (ListView) findViewById(R.id.myNotes);

        notes.add("Example");

        ArrayAdapter<String> adap = new ArrayAdapter<>( context: this,
                                        android.R.layout.simple_list_item_1,
                                        notes);

        v.setAdapter(adap);

    }
```
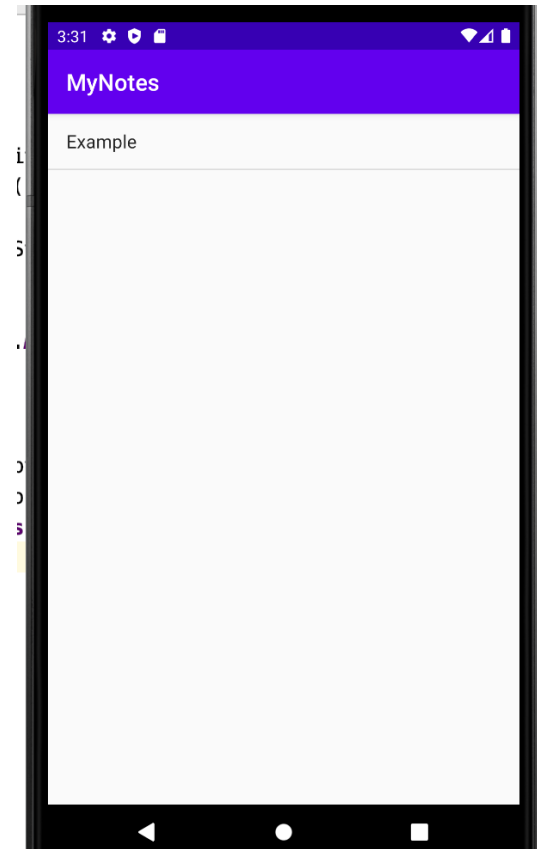
- Noteların Girişleri için Ikinci aktivite ekle
  - Listeye tıklandığında tıklanılan ıtem ID si ikinci activiteye gitsin
  - Ikici Aktivite içindeMultiline Text edit yerleştirelim

```java
v.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> parent, View view, int position, long id) {

        Intent Myint= new Intent( packageContext: MainActivity.this,NotesEntry.class);
            Myint.putExtra( name: "noteID",position);
            startActivity(Myint);

    }
});
```

Note Giriş Aktivitesi

```java
public class NotesEntry extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_notes_entry);
        EditText et = (EditText) findViewById(R.id.editText);

        Intent recInt= getIntent();
        int noteID= recInt.getIntExtra( name: "noteID", defaultValue: -1);
        if(noteID!=-1){
            et.setText( MainActivity.notes.get(noteID));
        }

    }
}
```

-
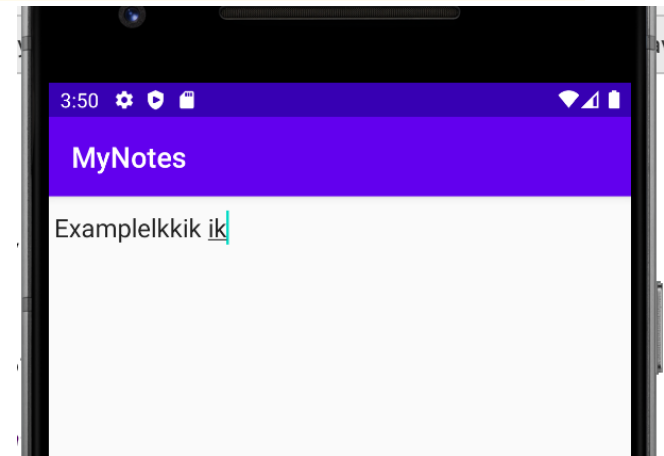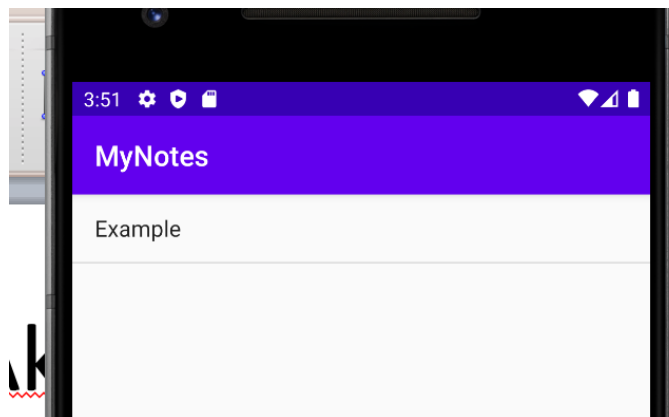
Edit Text Değiştiğinde işlem yap

```
et.setText( MainActivity.notes.get(noteID));

et.addTextChangedListener(new TextWatcher() {
    @Override
    public void beforeTextChanged(CharSequence s, int start, int count, int after) {

    }

    @Override
    public void onTextChanged(CharSequence s, int start, int before, int count) {

        MainActivity.notes.set(noteID,s.toString());
        MainActivity.adap.notifyDataSetChanged();
    }

    @Override
    public void afterTextChanged(Editable s) {

    }
});
```
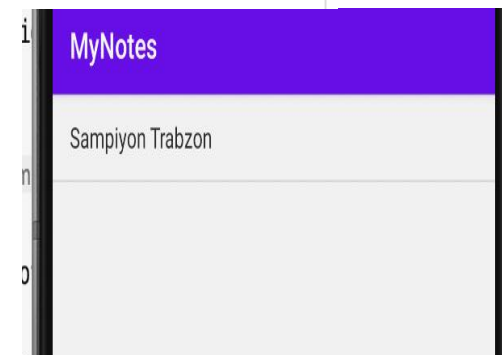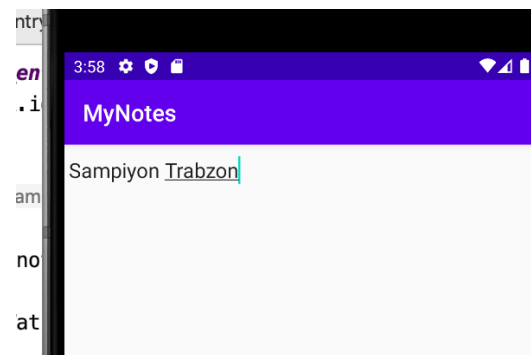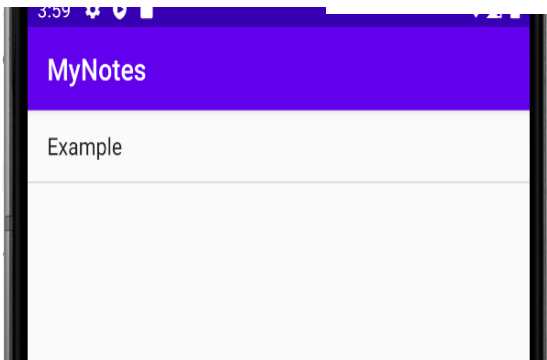
Yeni Note Ekleme ve Silme

- Action Bar ile yapalım
  - Menu Klasürü ekle
    - Menu Resource layout ekle

```java
@Override
public boolean onCreateOptionsMenu(Menu menu) {

    super.onCreateOptionsMenu(menu);

    MenuInflater inf=getMenuInflater();
    inf.inflate(R.menu.main_menu,menu);

    return super.onCreateOptionsMenu(menu);

}
```

```java
private void Ekle() {
    Intent mint= new Intent(getApplicationContext(),NotesEntry.class);
    startActivity(mint);
}
```

```java
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    super.onOptionsItemSelected(item);
    switch (item.getItemId()){
        case R.id.ekle:
            Ekle();
            return true;
        case R.id.cikar: Cikar(item); return  true;
        default:
            return false;
    }
}
```

```java
et.addTextChangedListener(new TextWatcher() {...});

if(noteID!=-1){
    et.setText( MainActivity.notes.get(noteID));
}else{
    MainActivity.notes.add("");
    noteID=MainActivity.notes.size()-1;
}
```