Mobil Programlama

Hafta 8

User Interface leri Gizleme açama

- setVisibility(View.VISIBLE)
- toggle

```
<Button
    android:id="@+id/btnGo"
    android:layout_width="242dp"
    android:layout_height="225dp"
    android:background="#FFFFFF"
    android:backgroundTint="#4CAF50"
    android:onClick="start"
    android:text="Go"
    android:textSize="80sp"

    |

    tools:visibility="visible" />
</RelativeLayout>
```
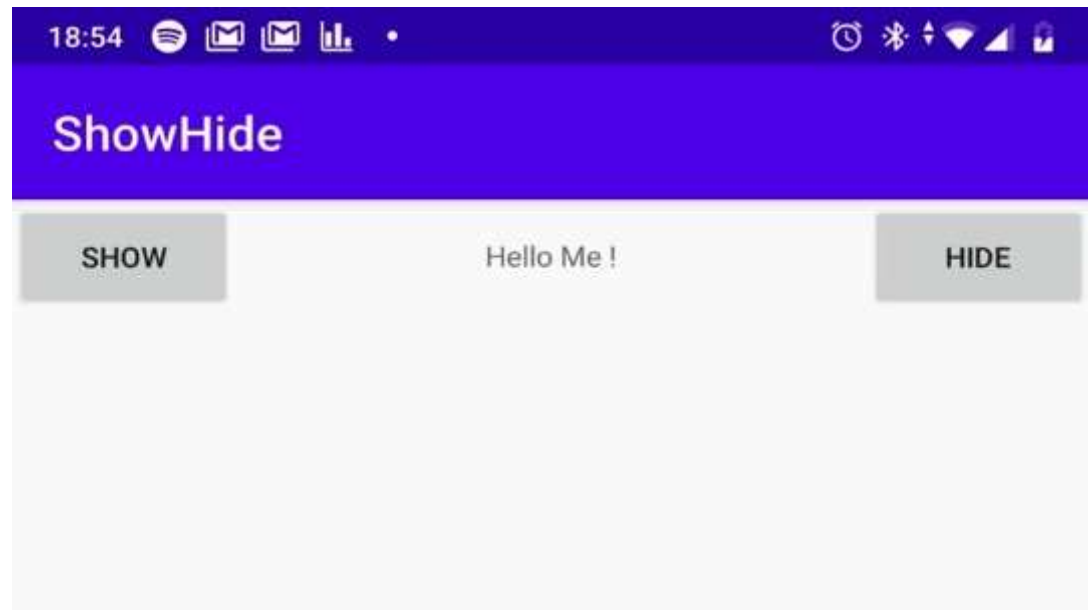
Relative Layout Tek Eleman

- Parent view ile Child view in birbirlerinin durumlarına göre, Child view pozisyon alır.

- android:layout_centerInParent:true
  – Tam merkeze alır

- android:layout_centerVertical:true
  – Düşeyde Ortaya Alır

- android:layout_centerHorizantal:true
  – Yatayda Ortaya Alır

android:layout_centerInParent:true Tam merkeze alır

-
```
<Button
    android:id="@+id/btnGo"
    android:layout_width="242dp"
    android:layout_height="225dp"
    android:background="#FFFFFF"
    android:backgroundTint="#4CAF50"
    android:onClick="start"
    android:text="Go"
    android:textSize="80sp"
    android:layout_centerInParent="true"

    tools:visibility="visible" />
RelativeLayout>
```
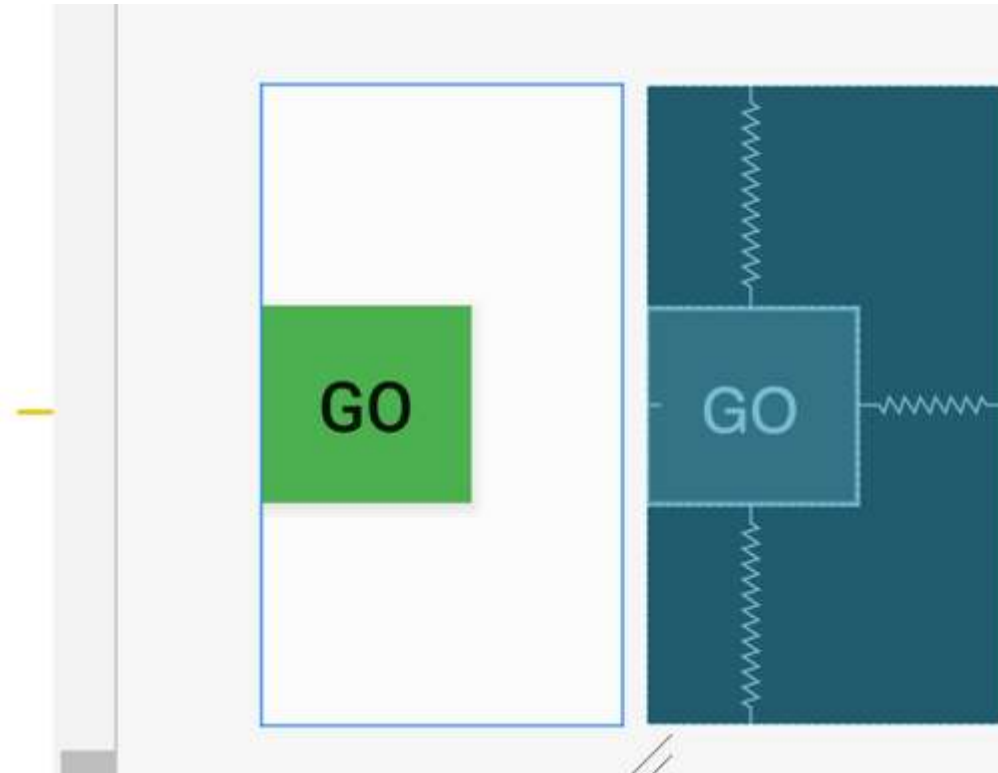

GO

android:layout_centerVertical:true

```xml
<Button
    android:id="@+id/btnGo"
    android:layout_width="242dp"
    android:layout_height="225dp"
    android:background="#FFFFFF"
    android:backgroundTint="#4CAF50"
    android:onClick="start"
    android:text="Go"
    android:textSize="80sp"

    android:layout_centerVertical="true"
    tools:visibility="visible" />
RelativeLayout>
```
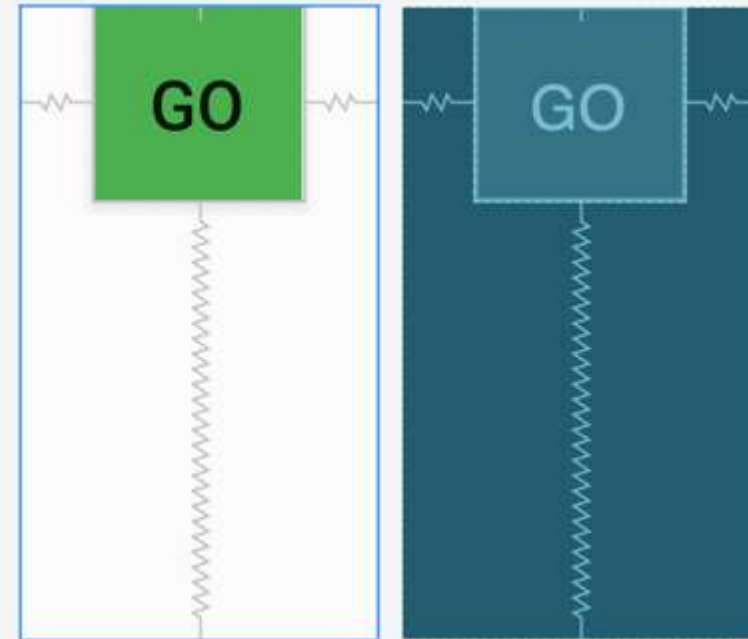
android:layout_centerHorizantal:true

```xml
<Button
    android:id="@+id/btnGo"
    android:layout_width="242dp"
    android:layout_height="225dp"
    android:background="#FFFFFF"
    android:backgroundTint="#4CAF50"
    android:onClick="start"
    android:text="Go"
    android:textSize="80sp"

    android:layout_centerHorizontal="true"
    tools:visibility="visible" />
</RelativeLayout>
```

Relative Layout
Birden Fazla Eleman

- Her bir elemana ID verildiğine emin olalım çünkü birbirlerine göre durumu değerlendirilecek
  - layout_centerInParent =true;
  - Android:layout_above: id ile belirtilen elemana göre üstte
  - Android:layout_below: id ile belirtilen elemana göre altta
  - Android:layout_toLeftof: id ile belirtilen elemana
  - Android:layout_toTheRigthOf: id ile belirtilen elemana

https://www.youtube.com/watch?v=gkh-5pmYEa0

GridLayout

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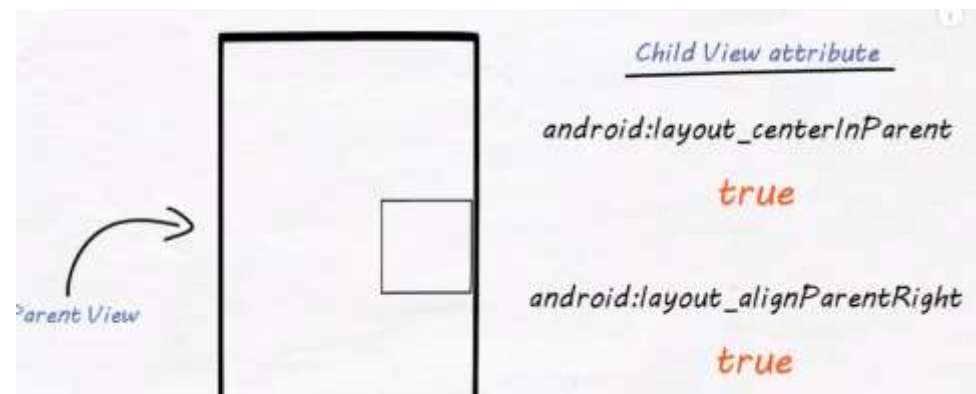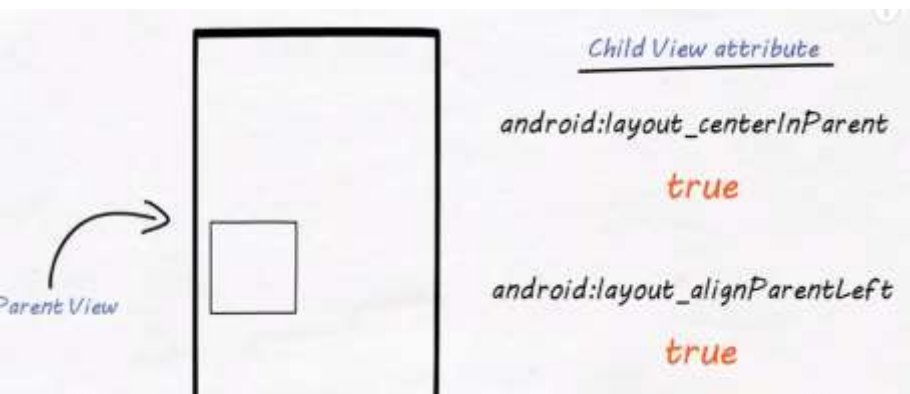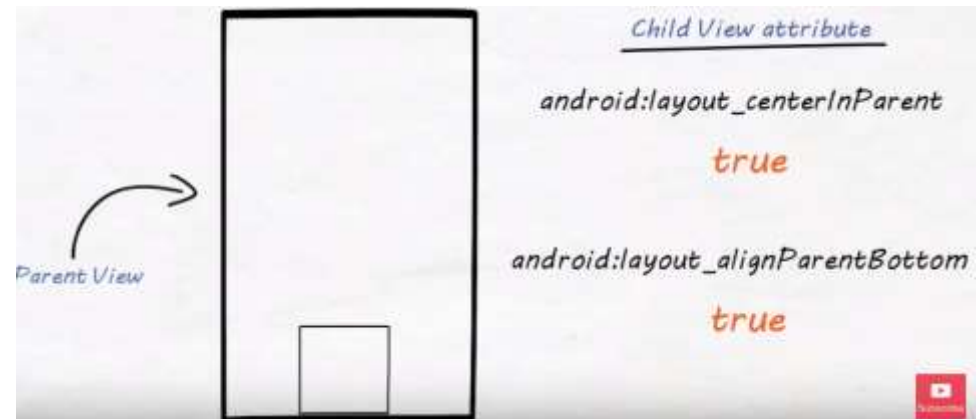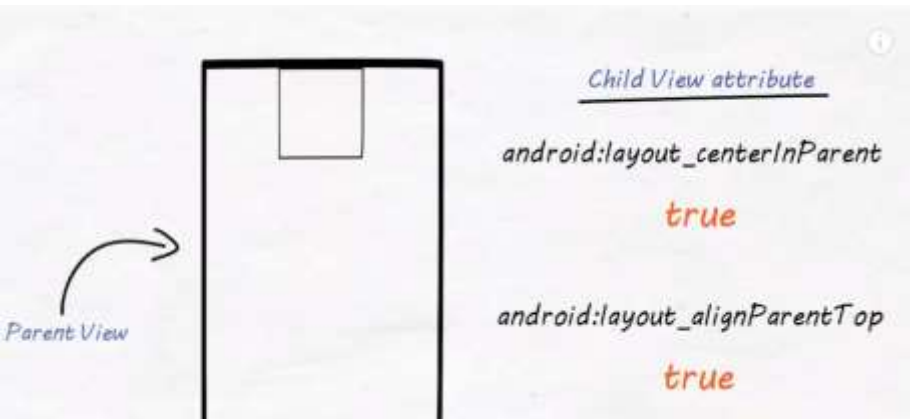
```xml
<androidx.gridlayout.widget.GridLayout
    android:id="@+id/grpButton"
    android:layout_width="match_parent"
    android:layout_height="455dp"
    android:layout_margin="10dp"
    android:layout_below="@+id/tvQuestion"

>

    <Button
        android:layout_margin="10dp"
        android:id="@+id/btnOption1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="1"
        android:textSize="80sp"
        app:layout_column="0"
        app:layout_row="0"
        app:layout_columnWeight="1"
        app:layout_rowWeight="1"
        app:layout_gravity="fill"
        android:tag="1"
        android:background="@android:color/holo_purple"

        />
```
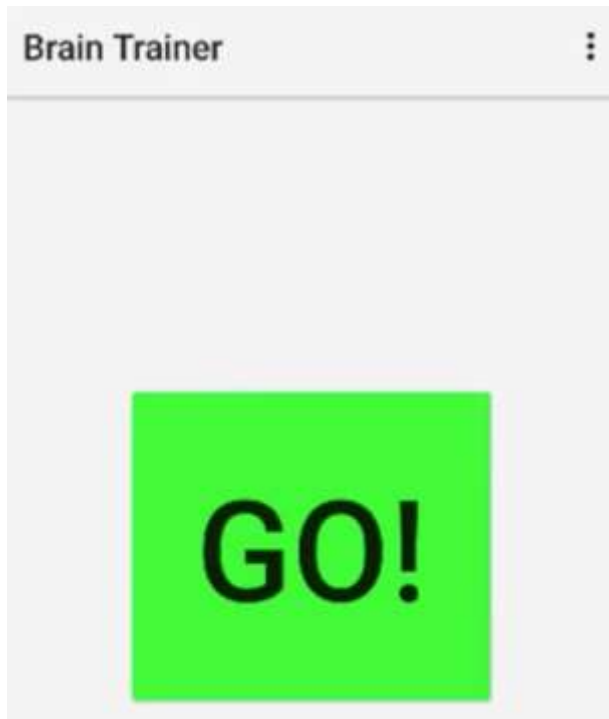
Brain Trainer

https://github.com/mckasap/BrainTrainer.git

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Download Web Content

- AsynchTask class

- BoilerPlate

```java
public class MainActivity extends AppCompatActivity {

    public class myTask extends AsyncTask<String,Void,String> {
        @Override
        public void onPostExecute(String s) {
            Log.d( tag: "Ouput",s);
            super.onPostExecute(s);
        }

        @Override
        protected String doInBackground(String... strings) {
            return strings[0];
        }
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        myTask theTask = new myTask();
        theTask.execute("https://www.ticaret.edu.tr");
```

```
2020-04-09 14:27:02.526 1064-1064/? D/OpenGLRenderer: Skia GL Pipeline
2020-04-09 14:27:02.549 1064-1064/? D/Ouput: https://www.ticaret.edu.tr
```

Adding HTTPUrlConnection

```java
protected String doInBackground(String... strings) {
    String result="";
    StringBuilder sb= new StringBuilder("");
    java.net.URL url;
    HttpURLConnection con;
        try{
        url= new URL(strings[0]); // düzgün formatta olmazsa hata alınır
        con =(HttpURLConnection) url.openConnection();

            InputStream in= con.getInputStream();
            InputStreamReader reader = new InputStreamReader(in); // characterler olarak okunacak
            int data = reader.read();

            while(data!=-1){
                char c= (char) data;
                sb.append(c);
                data = reader.read();
            }
        }catch (Exception e){
         e.printStackTrace();
    return  "Failed";
        }
    return sb.toString();
}
```

```xml
<uses-permission android:name="android.permission.INTERNET"></uses-permission>
    <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
    <head id="Head1"><meta http-equiv="Content-Type" content="text/html; chars
   icon" href="/images/favicon.ico" type="image/vnd.microsoft.icon" /><title>
        İstanbul Ticaret Üniversitesi
    </title>
```