



ANDROID STUDIO



Erasmus+

**JAN
2019**

DIGITAL AROUND THE WORLD IN 2019

THE ESSENTIAL HEADLINE DATA YOU NEED TO UNDERSTAND GLOBAL MOBILE, INTERNET, AND SOCIAL MEDIA USE

TOTAL
POPULATION



7.676

BILLION

URBANISATION:

56%

UNIQUE
MOBILE USERS



5.112

BILLION

PENETRATION:

67%

INTERNET
USERS



4.388

BILLION

PENETRATION:

57%

ACTIVE SOCIAL
MEDIA USERS



3.484

BILLION

PENETRATION:

45%

MOBILE SOCIAL
MEDIA USERS



3.256

BILLION

PENETRATION:

42%



we
are
social



we
are
social

JAN
2019

MOBILE USERS vs. MOBILE CONNECTIONS

A COMPARISON OF UNIQUE MOBILE USERS TO MOBILE CONNECTIONS

NUMBER OF UNIQUE
MOBILE USERS (ANY
TYPE OF HANDSET)



we
are
social

5.112
BILLION

UNIQUE MOBILE
USERS AS A PERCENTAGE
OF TOTAL POPULATION



GSMA

67%

TOTAL NUMBER
OF MOBILE
CONNECTIONS



GSMA

8.842
BILLION

MOBILE CONNECTIONS
AS A PERCENTAGE OF
TOTAL POPULATION



GSMA

115%

AVERAGE NUMBER OF
CONNECTIONS PER
UNIQUE MOBILE USER



1.73

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MOBILE APPS: GLOBAL TRENDS

GLOBAL APP DOWNLOADS, AND THE VALUE OF THE GLOBAL MOBILE APP MARKET IN U.S. DOLLARS, INCLUDING ANNUAL TRENDS

NUMBER OF MOBILE APPS
DOWNLOADED WORLDWIDE
IN 2018 (ALL PLATFORMS)



194
BILLION



ANNUAL GROWTH IN
THE NUMBER OF MOBILE
APPS DOWNLOADED



+9%

App Annie

TOTAL VALUE OF GLOBAL
CONSUMER SPEND ON
MOBILE APPS IN 2018



\$101
BILLION

*we
are
social*

ANNUAL GROWTH IN VALUE
OF GLOBAL CONSUMER
SPEND ON MOBILE APPS



+23%

App Annie

AVERAGE CONSUMER
SPEND ON MOBILE APPS
PER SMARTPHONE* IN 2018



\$20.15

Android Studio

It was first introduced at the Google I / O event on May 16, 2013.

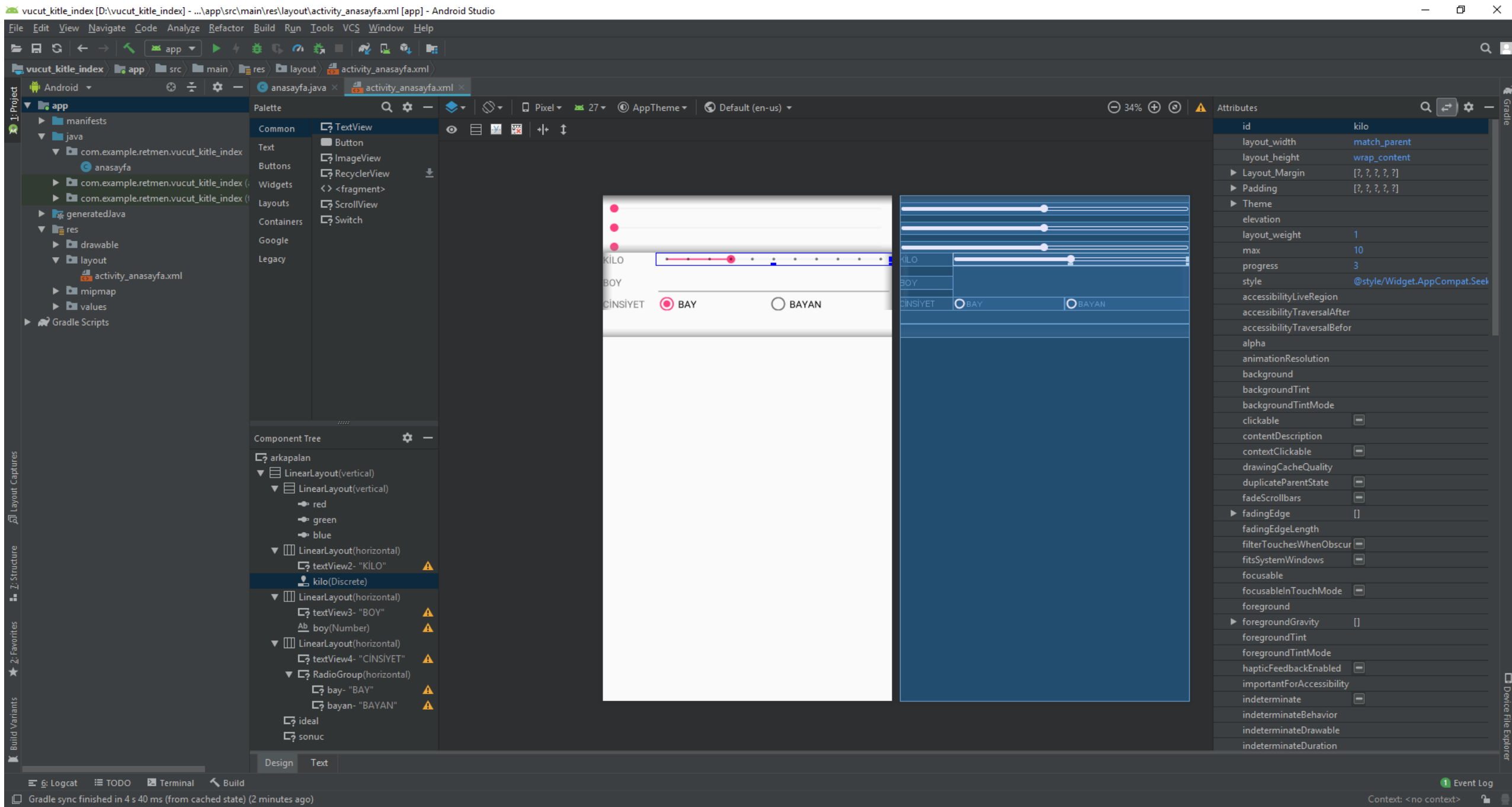
Android Studio is based on IntelliJ IDEA and is specifically designed for Android program development. Android Studio is licensed under the Apache license and is free.

The latest version, android studio 3.5, was released in August 2019.

Java or Kotlin programming languages are used. Our school is working with java.

12th Grades are given 4-5 hours of mobile applications per week

Android Studio 3.3.1



ANDROID STUDIO APPLICATIONS CREATED BY STUDENTS

FLASHLIGHT APP



JAVA CODE

```
activity_anasayfa.xml x anasayfa.java x
1 package com.example.retmen.elfeneri;
2
3
4 import ...
18
19 public class anasayfa extends AppCompatActivity {
20
21     ImageView durum;
22     Switch anahtar;
23     Vibrator titret;
24     Camera flash;
25     Parameters parametre;
26
27
28
29 @Override
30 protected void onCreate(Bundle savedInstanceState) {
31     super.onCreate(savedInstanceState);
32     setContentView(R.layout.activity_anasayfa);
33
34     durum=findViewById(R.id.durum);
35     anahtar=findViewById(R.id.anahtar);
36     final ImageView resim=findViewById(R.id.durum);
37
38     flash=Camera.open();
39     parametre=flash.getParameters();
40
41     anahtar.setOnCheckedChangeListener((compoundButton, b) -> {
42         titret=(Vibrator) getSystemService(Context.VIBRATOR_SERVICE);
43         titret.vibrate( milliseconds: 250);
44         if(anahtar.isChecked())
45         {
46             resim.setImageResource(R.drawable.ust_on);
47             parametre.setFlashMode(Parameters.FLASH_MODE_TORCH);
48             flash.setParameters(parametre);
49             flash.startPreview();
50
51         }
52         else
53         {
54             resim.setImageResource(R.drawable.ust_off);
55             parametre.setFlashMode(Parameters.FLASH_MODE_OFF);
56             flash.setParameters(parametre);
57             flash.stopPreview();
58
59         }
60     });
61
62
63
64
65 }
```


TRUE/FALSE APP



JAVA CODE

```
1 package com.example.erman.dogruyanlisoyunu;
2
3 import ...
4
10
11 public class MainActivity extends AppCompatActivity {
12
13     String[] sorular, cevaplar;
14     int n = -1, DogruSayisi = 0, YanlisSayisi = 0;
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_main);
20
21         sorular = getResources().getStringArray(R.array.sorular);
22         cevaplar = getResources().getStringArray(R.array.cevaplar);
23         SiradakiSoru();
24
25         Button btnDogru = findViewById(R.id.btnDogru);
26         Button btnYanlis = findViewById(R.id.btnYanlis);
27
28
29         btnDogru.setOnClickListener((view) -> {
30             String cevap = cevaplar[n];
31             Boolean bCevap = Boolean.parseBoolean(cevap);
32             if (bCevap)
33             {
34                 Toast.makeText(getApplicationContext(), text: "Bildiniz!", Toast.LENGTH_LONG).show();
35                 DogruSayisi++;
36             }
37             else {
38                 Toast.makeText(getApplicationContext(), text: "Bilemediniz.", Toast.LENGTH_LONG).show();
39                 YanlisSayisi++;
40             }
41             SiradakiSoru();
42         });
43
44         btnYanlis.setOnClickListener((view) -> {
45             String cevap = cevaplar[n];
46             Boolean bCevap = Boolean.parseBoolean(cevap);
47             if (bCevap == false)
48             {
49                 Toast.makeText(getApplicationContext(), text: "Bildiniz!", Toast.LENGTH_LONG).show();
50                 DogruSayisi++;
51             }
52             else {
53                 Toast.makeText(getApplicationContext(), text: "Bilemediniz.", Toast.LENGTH_LONG).show();
54                 YanlisSayisi++;
55             }
56             SiradakiSoru();
57         });
58     }
59 }
```

RESULT CALCULATOR APP FOR EXAMS

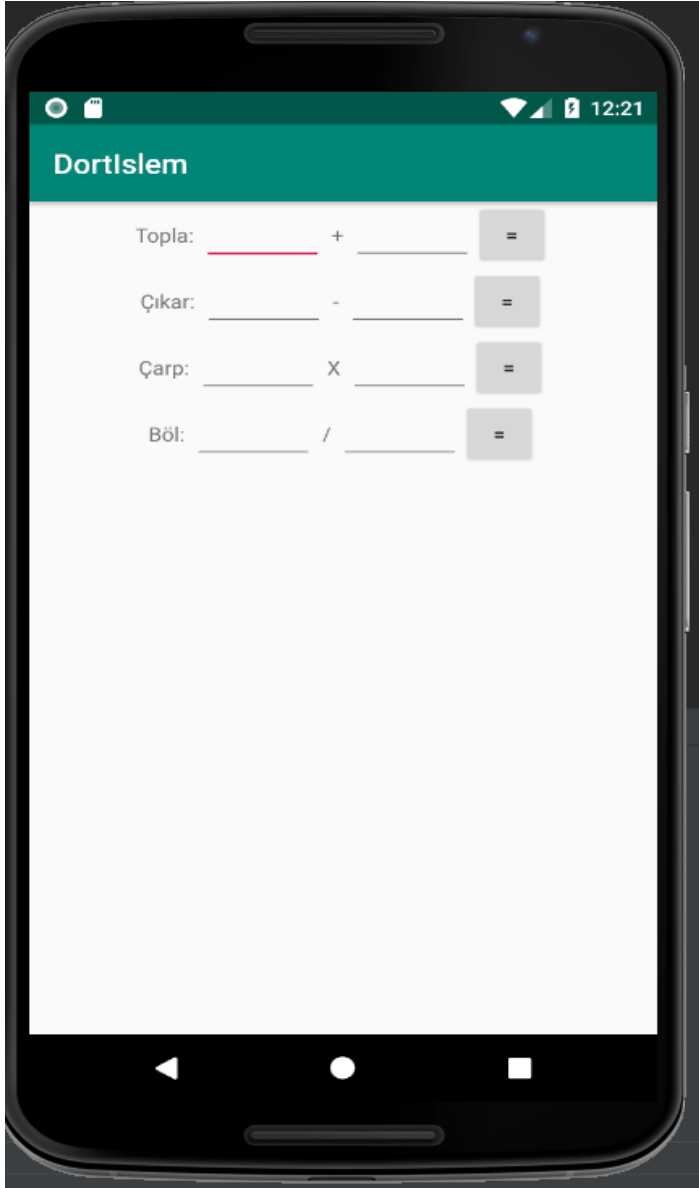
JAVA CODE



```
26 final EditText g_sosyal_yanlis=findViewById(R.id.sosyal_yanlis);
27 final EditText g_fen_dogru=findViewById(R.id.fen_dogru);
28 final EditText g_fen_yanlis=findViewById(R.id.fen_yanlis);
29 final EditText g_dip_notu=findViewById(R.id.dip_not);
30 Button hesap=findViewById(R.id.btn_hesap);
31 final TextView sonuc=findViewById(R.id.sonuc);
32
33
34 g_turkce_yanlis.addTextChangedListener(new TextWatcher() {
35     @Override
36     public void beforeTextChanged(CharSequence charSequence, int i, int il, int i2) {
37     }
38     @Override
39     public void onTextChanged(CharSequence charSequence, int i, int il, int i2) {
40     }
41     @Override
42     public void afterTextChanged(Editable editable) {
43         if(g_turkce_yanlis.getText().toString().trim().equals(""))
44         {
45             sonuc.setText("");
46         }
47         else if(Double.parseDouble(g_turkce_yanlis.getText().toString())>40 || Double.parseDouble(g_turkce_yanlis.getText().toString())<0)
48         {
49             sonuc.setText("YANLIŞ SAYISI 40 DAN BÜYÜK VE 0 DAN KÜÇÜK OLAMAZ");
50         }
51         else
52         {
53             sonuc.setText("");
54         }
55     }
56 }
57
58 if(g_turkce_yanlis.getText().toString().trim().equals(""))
59 {
60     sonuc.setText("");
61 }
62
63 else if((Double.parseDouble(g_turkce_dogru.getText().toString())+Double.parseDouble(g_turkce_yanlis.getText().toString()))>40)
64 {
65     sonuc.setText("YANLIŞ SAYISI FAZLA GİRİLDİ");
66 }
67 else
68 {
69     sonuc.setText("");
70 }
71
72
73
74
```

EASY CALCULATOR APP FOR KIDS

JAVA CODE



```
MainActivity.java x
1 package com.example.erman.dortislem;
2
3 import ...
10
11 public class MainActivity extends AppCompatActivity {
12
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_main);
17
18         Button btnTopla = findViewById(R.id.btnTopla);
19         btnTopla.setOnClickListener((view) -> {
20             EditText etSayi1 = findViewById(R.id.etSayi1);
21             EditText etSayi2 = findViewById(R.id.etSayi2);
22             TextView tvToplam = findViewById(R.id.tvToplam);
23             String sayi1 = etSayi1.getText().toString();
24             String sayi2 = etSayi2.getText().toString();
25             int toplam = Integer.parseInt(sayi1) + Integer.parseInt(sayi2);
26             tvToplam.setText(Integer.toString(toplam));
27             Toast.makeText(getApplicationContext(), text: "Sonuç hesaplandı.", Toast.LENGTH_SHORT).show();
28         });
29
30         Button btnCikar = findViewById(R.id.btnCikar);
31         btnCikar.setOnClickListener((view) -> {
32             EditText etSayi1 = findViewById(R.id.etSayi1Cikarma);
33             EditText etSayi2 = findViewById(R.id.etSayi2Cikarma);
34             TextView tvFark = findViewById(R.id.tvFark);
35             String sayi1 = etSayi1.getText().toString();
36             String sayi2 = etSayi2.getText().toString();
37             int fark = Integer.parseInt(sayi1) - Integer.parseInt(sayi2);
38             tvFark.setText(Integer.toString(fark));
39             Toast.makeText(getApplicationContext(), text: "Sonuç hesaplandı.", Toast.LENGTH_SHORT).show();
40         });
41
42         Button btnCarp = findViewById(R.id.btnCarp);
43         btnCarp.setOnClickListener((view) -> {
44             EditText etSayi1 = findViewById(R.id.etSayi1Carpma);
45             EditText etSayi2 = findViewById(R.id.etSayi2Carpma);
46             TextView tvCarpim = findViewById(R.id.tvCarpim);
47             String sayi1 = etSayi1.getText().toString();
48             String sayi2 = etSayi2.getText().toString();
49             int carpin = Integer.parseInt(sayi1) * Integer.parseInt(sayi2);
50             tvCarpim.setText(Integer.toString(carpin));
51             Toast.makeText(getApplicationContext(), text: "Sonuç hesaplandı.", Toast.LENGTH_SHORT).show();
52         });
53
54         Button btnBol = findViewById(R.id.btnBol);
55         btnBol.setOnClickListener((view) -> {
56             EditText etSayi1 = findViewById(R.id.etSayi1Bolme);
57
58         });
59     }
60 }
61
62 MainActivity > onCreate()
```

THANK YOU