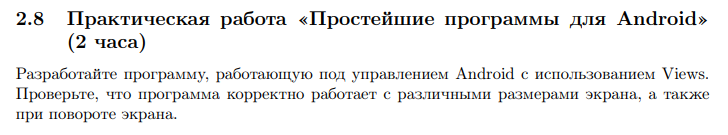
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19. Программа определения по дате (число и месяц) знака зодиака

Strings.xml

<resources>  
 <string name="app\_name">Practice8</string>  
 <string name="determine\_button\_text">Определить знак зодиака</string>  
 <string name="result\_text">Ваш знак зодиака: %s</string>  
</resources>

Activity\_main.xml

<DatePicker  
 android:id="@+id/datePicker"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 />  
  
<Button  
 android:id="@+id/determineButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/datePicker"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="468dp"  
 android:text="Определить знак зодиака"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
<TextView  
 android:id="@+id/resultTextView"  
 android:layout\_width="188dp"  
 android:layout\_height="41dp"  
 android:layout\_marginStart="52dp"  
 android:layout\_marginTop="552dp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"/>

MainActivity.kt

import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.widget.Button  
import android.widget.DatePicker  
import android.widget.TextView  
  
class MainActivity : AppCompatActivity()  
{  
 override fun onCreate(savedInstanceState: Bundle?)  
 {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
  
 val datePicker = findViewById<DatePicker>(R.id.*datePicker*)  
 val resultTextView = findViewById<TextView>(R.id.*resultTextView*)  
 val determineButton = findViewById<Button>(R.id.*determineButton*)  
  
 determineButton.*text* = getString(R.string.*determine\_button\_text*)  
  
 determineButton.setOnClickListener **{** val day = datePicker.*dayOfMonth* val month = datePicker.*month* + **1** // DatePicker месяцы начинаются с 0  
  
 val zodiacSign = determineZodiacSign(day**,** month)  
 val resultText = getString(R.string.*result\_text***,** zodiacSign)  
 resultTextView.*text* = resultText  
 **}** }  
  
 private fun determineZodiacSign(day: Int**,** month: Int): String {  
 when {  
 (month == **3** && day >= **21**) || (month == **4** && day <= **19**) -> return "Овен"  
 (month == **4** && day >= **20**) || (month == **5** && day <= **20**) -> return "Телец"  
 (month == **5** && day >= **21**) || (month == **6** && day <= **20**) -> return "Близнецы"  
 (month == **6** && day >= **21**) || (month == **7** && day <= **22**) -> return "Рак"  
 (month == **7** && day >= **23**) || (month == **8** && day <= **22**) -> return "Лев"  
 (month == **8** && day >= **23**) || (month == **9** && day <= **22**) -> return "Дева"  
 (month == **9** && day >= **23**) || (month == **10** && day <= **22**) -> return "Весы"  
 (month == **10** && day >= **23**) || (month == **11** && day <= **21**) -> return "Скорпион"  
 (month == **11** && day >= **22**) || (month == **12** && day <= **21**) -> return "Стрелец"  
 (month == **12** && day >= **22**) || (month == **1** && day <= **19**) -> return "Козерог"  
 (month == **1** && day >= **20**) || (month == **2** && day <= **18**) -> return "Водолей"  
 (month == **2** && day >= **19**) || (month == **3** && day <= **20**) -> return "Рыбы"  
 else -> return "Неизвестный знак"  
 }  
 }