

Bài 1:

```
class MainActivity : AppCompatActivity() {  
    private lateinit var etDestination: EditText  
    private lateinit var spSourceCurrency: Spinner  
    private lateinit var spDestinationCurrency: Spinner  
    private var isSourceEditing = true  
    // Tí giá hối đổi  
    private val exchangeRates = mapOf(  
        "AUD" to 1.5073102244,  
        "BGN" to 1.8173203445,  
        "BRL" to 5.6864007021,  
        "CAD" to 1.3837008259,  
        "CHF" to 0.8647401653,  
        "CNY" to 7.1508312405,  
        "CZK" to 23.4180356881,  
        "DKK" to 6.9186009789,  
        "EUR" to 0.9275401034,  
        "GBP" to 0.7744301034,  
        "HKD" to 7.7671608009,  
        "HKD" to 6.5559609776,  
        "HUF" to 374.0299705356,  
        "IDR" to 15610.989426789  
    )
```

Bài 2

Số chẵn:

```
package com.example.list  
import android.os.Bundle  
import android.text.Editable  
import android.text.TextWatcher  
import android.view.View  
import android.widget.*  
import androidx.appcompat.app.AppCompatActivity  
2 Usages  
class MainActivity : AppCompatActivity() {  
    3 Usages  
    private lateinit var editTextNumber: EditText  
    5 Usages  
    private lateinit var radioGroupRow1: RadioGroup  
    8 Usages  
    private lateinit var radioGroupRow2: RadioGroup  
    3 Usages  
    private lateinit var radioEven: RadioButton  
    2 Usages  
    private lateinit var radioOdd: RadioButton  
    2 Usages  
    private lateinit var radioSquare: RadioButton  
    2 Usages  
    private lateinit var radioPrime: RadioButton  
    2 Usages  
    private lateinit var radioPerfect: RadioButton  
    2 Usages  
    private lateinit var radioFibonacci: RadioButton  
    5 Usages  
    private lateinit var listViewNumbers: ListView
```

Số lẻ:

The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The left sidebar displays the project structure under the "Android" tab. It includes modules like app, manifests, kotlin+java, and com.example.list, with MainActivity selected.
- MainActivity.kt:** The main code editor window shows the Java code for MainActivity. A specific line of code, `private lateinit var editTextNumber: EditText`, is highlighted with a red bracket, indicating it has 3 usages.
- Usage List:** A floating search results panel on the right lists the 3 usages of the `editTextNumber` variable. Each result shows the file path and line number where the variable is used.
- Bottom Status Bar:** The status bar at the bottom shows the current file (MainActivity.kt), encoding (UTF-8), and other system information.

Số chính phương

The screenshot shows the Android Studio interface with the following details:

- Project Bar:** Shows "List" and "Version control".
- Toolbars:** Standard Java development tools like Find, Replace, and Run.
- Left Sidebar:** Project structure for "com.example.list" showing modules: app, manifests, kotlin+java, com.example.list, and res.
- Central Editor:** Code editor for "activity_main.xml" and "MainActivity.kt". The code for MainActivity.kt includes methods for adding perfect numbers and Fibonacci numbers.
- Right Sidebar:** Shows a list of numbers from 0 to 36, with checkboxes for "Chẵn" (Even), "Lẻ" (Odd), and "Chinh phuong" (Perfect square). It also lists "Nguyễn Tô", "Hoàn hảo", and "Fibonacci".
- Bottom Status Bar:** Shows "215-2 LP UTF-8 4 spaces".
- Bottom Taskbar:** Shows various application icons.

Số nguyên tố:

The screenshot shows the Android Studio interface with the code editor open to `MainActivity.kt`. The code defines a `MainActivity` class extending `AppCompatActivity`. It contains several private fields: `editTextNumber`, `radioGroupRow1`, `radioEven`, `radioOdd`, `radioSquare`, `radioPrime`, `radioPerfect`, and `listViewNumbers`. Annotations above the code indicate the following usages:

- Chân (True Prime): 2, 3, 5, 7, 11, 13, 17, 19.
- Lé (Composite): 20, 36, 6, 28.
- Chinh phương (Perfect Square): None.
- Hoàn hảo (Perfect Number): None.
- Fibonacci: None.

The code editor also shows the file structure on the left and various toolbars at the top and bottom.

Số hoàn hảo:

This screenshot is identical to the previous one, showing the same code editor and file structure in Android Studio. The annotations in the margin now highlight the number 6 as a perfect number (Hoàn hảo) and 28 as another (Perfect Number). The other numbers remain marked as composite (Lé).

Fibonacci:

The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The left sidebar shows the project structure under the "Android" tab, with the "app" module selected. Inside "app", there are "manifests", "kotlin+java", "com.example.list" (containing "MainActivity"), and "res" (containing "drawable", "layout", "mipmap", "values", and "xml").
- MainActivity.kt:** The main code editor window displays the Kotlin code for MainActivity. The code includes imports for android.os.Bundle, android.text.Editable, android.view.View, android.widget.* from android.widget, and androidx.appcompat.app.AppCompatActivity.
- Code Snippet:** A code snippet at the bottom of the editor shows the declaration of a ListView variable named listViewNumbers.
- Floating Fibonacci Calculator:** A floating window titled "Medium Phone API 36.1" is open on the right side. It contains a list of Fibonacci numbers from 0 to 34. The number 34 is highlighted. The window also includes a legend with radio buttons for "Chẵn" (Even), "Lẻ" (Odd), "Chinh phuong" (Perfect square), "Nguyen tu" (Natural), "Hoan hao" (Perfect), and "Fibonacci" (selected).
- System Bar:** The bottom of the screen shows the Windows taskbar with various pinned icons like File Explorer, Task View, and Edge. The system tray shows battery level, signal strength, and the date/time (11/10/2025, 9:23 PM).