

Java 应用实验

实验一

1. 通过 Visual Studio Code 创建一个 Spring Boot 的项目
2. 创建成功后，创建一个 APIController.java 文件
3. 输入如下命令

```
//create weather api  
  
//return 1 to 50 even number
```

```
//create weather api  
@GetMapping("/weather/{city}")  
public String getWeather(@PathVariable String city) {  
    return "Weather in " + city + " is good";  
}  
  
//return 1 to 50 even number  
@RequestMapping(value = "/even", method = RequestMethod.GET)  
public String getEven() {  
    StringBuilder sb = new StringBuilder();  
    for (int i = 1; i <= 50; i++) {  
        if (i % 2 == 0) {  
            sb.append(i).append(str: ",");  
        }  
    }  
    return sb.toString();  
}
```

实验二

1. 通过 Visual Studio Code 创建一个 Java 项目
2. 创建成功后输入如下语句

```
//create binary tree class and add nodes
```

```
....//create binary tree class and add nodes
public class BinaryTree{
    Node root;

    public BinaryTree(Node root){
        this.root = root;
    }

    public void addNode(Node node){
        if(root == null){
            root = node;
        }else{
            root.addNode(node);
        }
    }

    public void printTree(){
        if(root != null){
            root.printNode();
        }
    }
}

public class Node{
    int data;
    Node left;
```

实验三

1. 输入以下命令

```
//create android listview in Kotlin
```

```
1  /*
2
3  create android listview in Kotlin
4
5  */
6
7  package com.example.listview
8
9  import android.os.Bundle
10 import android.widget.ArrayAdapter
11 import android.widget.ListView
12 import androidx.appcompat.app.AppCompatActivity
13
14 class MainActivity : AppCompatActivity() {
15     override fun onCreate(savedInstanceState: Bundle?) {
16         super.onCreate(savedInstanceState)
17         setContentView(R.layout.activity_main)
18
19         val listView = findViewById<ListView>(R.id.listView)
20         val list = mutableListOf<String>()
21
22         for (i in 0..20) {
23             list.add("Item $i")
24         }
25
26         val adapter = ArrayAdapter(this, android.R.layout.simple_list_item_1, list)
27         listView.adapter = adapter
28     }
29 }
```