Github 網址： https://github.com/hxuchu/chapter4.git

CHAPTER4

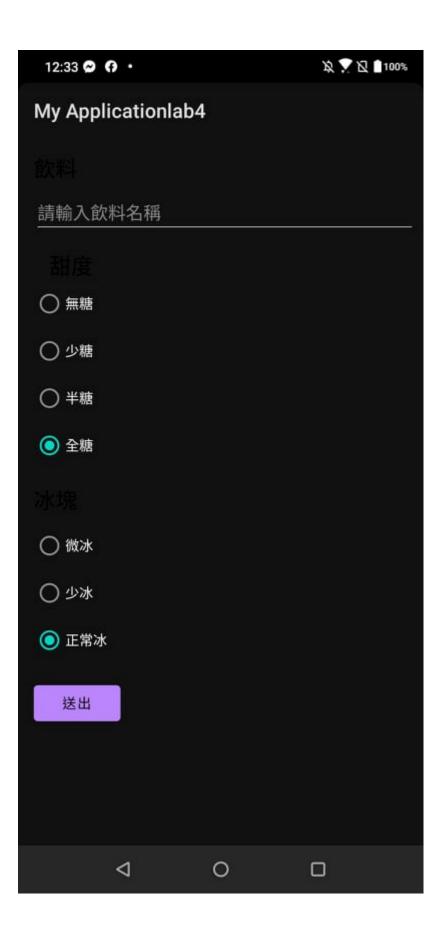班級：電子三甲

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學號：108650018

App 手機畫面

My Applicationlab4

點餐 　選擇

確認餐點:

飲料: 紅茶

甜度: 少糖

冰塊: 少冰

My Applicationlab4

飲料

請輸入飲料名稱

甜度

○ 無糖

○ 少糖

○ 半糖

◉ 全糖

冰塊

○ 微冰

○ 少冰

◉ 正常冰

送出

My Applicationlab4

點餐 選擇

確認餐點:

飲料: 紅茶

甜度: 全糖

冰塊: 正常冰

變數設定方式

Java

```java
private Button send_btn;
private EditText set_drink;
private RadioGroup rg1, rg2;

private String sugar = "無糖";
private String ice_opt = "去冰";
```

Kotlin

```kotlin
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_main2)
    val btn_send  = findViewById<Button>(R.id.btn_send)
    val ed_drink = findViewById<EditText>(R.id.ed_drink)
    val radioGroup = findViewById<RadioGroup>(R.id.radioGroup)
    val radioGroup2 = findViewById<RadioGroup>(R.id.radioGroup2)
    val radioButton1 = findViewById<RadioButton>(R.id.radioButton1)
    val radioButton2 = findViewById<RadioButton>(R.id.radioButton2)
    val radioButton3 = findViewById<RadioButton>(R.id.radioButton3)
    val radioButton4= findViewById<RadioButton>(R.id.radioButton4)
    val radioButton5 = findViewById<RadioButton>(R.id.radioButton5)
    val radioButton6= findViewById<RadioButton>(R.id.radioButton6)
    val radioButton7= findViewById<RadioButton>(R.id.radioButton7)
```

介面 1 顯示用法差別

Java 介面 1

```java
if (resultCode == 101){

    Bundle b = data.getExtras();
    String str1 = b.getString( key: "drink");
    String str2 = b.getString( key: "sugar");
    String str3 = b.getString( key: "ice");
    tv_meal.setText(String.format("飲料: %s\n\n甜度: %s\n\n冰塊: %s\n\n",
            str1,
            str2,
            str3));
}
```

Kotlin 介面 1

```kotlin
        if(requestCode==1 && resultCode== Activity.RESULT_OK){
            tv_meal.text ="飲料: ${it.getString( key: "drink")}\n\n" +
                    "甜度: ${it.getString( key: "sugar")}\n\n" +
                    "冰塊: ${it.getString( key: "ice")}"
```

介面 2 顯示用法差別、判斷式用法差別

Java

```java
rg1 = findViewById(R.id.radioGroup);
rg1.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {
    @Override
    public void onCheckedChanged(RadioGroup radioGroup, int i) {
        switch(i){
            case R.id.radioButton1:
                sugar = "無糖";
                break;
            case R.id.radioButton2:
                sugar = "少糖";
                break;
            case R.id.radioButton3:
                sugar = "半糖";
                break;
            case R.id.radioButton4:
                sugar = "全糖";
                break;
        }
    }
});
```

```java
rg2 = findViewById(R.id.radioGroup2);
rg2.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {
    @Override
    public void onCheckedChanged(RadioGroup radioGroup, int i) {
        switch(i){
            case R.id.radioButton5:
                ice_opt = "微冰";
                break;
            case R.id.radioButton6:
                ice_opt = "少冰";
                break;
            case R.id.radioButton7:
                ice_opt = "正常冰";
                break;
        }
    }
});
```

```java
send_btn = findViewById(R.id.btn_send);
send_btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        set_drink = findViewById(R.id.ed_drink);
        String drink = set_drink.getText().toString();
        Intent i = new Intent();
        Bundle b = new Bundle();
        b.putString("sugar", sugar);
        b.putString("drink",drink);
        b.putString("ice",ice_opt);
        i.putExtras(b);
        setResult( resultCode: 101,i);
        finish();
    }
});
```

Kotlin

```
btn_send.setOnClickListener{  it: View!
    if(ed_drink.length()<1)
        Toast.makeText( context: this, text: "請輸入飲料名稱",Toast.LENGTH_SHORT).show()
    else{
        val b =Bundle()
        b.putString("drink",ed_drink.text.toString())
        b.putString("sugar",radioGroup.findViewById<RadioButton>
            (radioGroup.checkedRadioButtonId).text.toString())
        b.putString("ice",radioGroup2.findViewById<RadioButton>
            (radioGroup2.checkedRadioButtonId).text.toString())

        setResult(Activity.RESULT_OK, Intent().putExtras(b))
        finish()
    }
}
```

Github

```
hxuchu@DESKTOP-GKSRT8H MINGW64 ~/AndroidStudioProjects/MyApplicationlab4 (master
)
$ git init
Initialized empty Git repository in C:/Users/hxuchu/AndroidStudioProjects/MyAppl
icationlab4/.git/
```

```
hxuchu@DESKTOP-GKSRT8H MINGW64 ~/AndroidStudioProjects/MyApplicationlab4 (master
)
$ git add .
warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/build.gradle.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/proguard-rules.pro.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/androidTest/java/com/example/mya
pplicationlab4/ExampleInstrumentedTest.kt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/java/com/example/myapplicat
ionlab4/MainActivity.kt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/java/com/example/myapplicat
ionlab4/MainActivity2.kt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/drawable-v24/ic_launche
r_foreground.xml.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/drawable/ic_launcher_ba
ckground.xml.
```

```
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/layout/activity_main.xm
l.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/layout/activity_main2.x
ml.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/mipmap-anydpi-v26/ic_la
uncher.xml.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/mipmap-anydpi-v26/ic_la
uncher_round.xml.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/values-night/themes.xml
.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/values/colors.xml.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/values/strings.xml.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/main/res/values/themes.xml.
```

```
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in app/src/test/java/com/example/myapplicat
ionlab4/ExampleUnitTest.kt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in build.gradle.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in gradle.properties.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in gradlew.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in settings.gradle.
The file will have its original line endings in your working directory
```

```
)
$ git commit -m "first"
[master (root-commit) 6dcc727] first
 50 files changed, 1060 insertions(+)
 create mode 100644 .gitignore
 create mode 100644 .idea/.gitignore
 create mode 100644 .idea/.name
 create mode 100644 .idea/compiler.xml
 create mode 100644 .idea/gradle.xml
 create mode 100644 .idea/misc.xml
 create mode 100644 .idea/vcs.xml
 create mode 100644 app/.gitignore
 create mode 100644 app/build.gradle
 create mode 100644 app/proguard-rules.pro
 create mode 100644 app/src/androidTest/java/com/example/myapplicationlab4/ExampleI
nstrumentedTest.kt
 create mode 100644 app/src/main/AndroidManifest.xml
 create mode 100644 app/src/main/java/com/example/myapplicationlab4/MainActivity.kt
 create mode 100644 app/src/main/java/com/example/myapplicationlab4/MainActivity2.k
t
 create mode 100644 app/src/main/res/drawable-v24/ic_launcher_foreground.xml
 create mode 100644 app/src/main/res/drawable/ic_launcher_background.xml
 create mode 100644 app/src/main/res/layout/activity_main.xml
 create mode 100644 app/src/main/res/layout/activity_main2.xml
 create mode 100644 app/src/main/res/mipmap-anydpi-v26/ic_launcher.xml
 create mode 100644 app/src/main/res/mipmap-anydpi-v26/ic_launcher_round.xml
 create mode 100644 app/src/main/res/mipmap-hdpi/ic_launcher.webp
 create mode 100644 app/src/main/res/mipmap-hdpi/ic_launcher_round.webp
 create mode 100644 app/src/main/res/mipmap-mdpi/ic_launcher.webp
 create mode 100644 app/src/main/res/mipmap-mdpi/ic_launcher_round.webp
 create mode 100644 app/src/main/res/mipmap-xhdpi/ic_launcher.webp
 create mode 100644 app/src/main/res/mipmap-xhdpi/ic_launcher_round.webp
 create mode 100644 app/src/main/res/mipmap-xxhdpi/ic_launcher.webp
 create mode 100644 app/src/main/res/mipmap-xxhdpi/ic_launcher_round.webp
 create mode 100644 app/src/main/res/mipmap-xxxhdpi/ic_launcher.webp
 create mode 100644 app/src/main/res/mipmap-xxxhdpi/ic_launcher_round.webp
 create mode 100644 app/src/main/res/values-night/themes.xml
 create mode 100644 app/src/main/res/values/colors.xml
 create mode 100644 app/src/main/res/values/strings.xml
 create mode 100644 app/src/main/res/values/themes.xml
 create mode 100644 app/src/test/java/com/example/myapplicationlab4/ExampleUnitTest
.kt
 create mode 100644 build.gradle
 create mode 100644 gradle.properties
 create mode 100644 gradle/wrapper/gradle-wrapper.jar
 create mode 100644 gradle/wrapper/gradle-wrapper.properties
 create mode 100644 gradlew
 create mode 100644 gradlew.bat
 create mode 100644 "picture/app/java\344\273\213\351\235\2421.jpg"
 create mode 100644 "picture/app/java\344\273\213\351\235\2422-1.jpg"
 create mode 100644 "picture/app/java\344\273\213\351\235\2422-2.jpg"
 create mode 100644 "picture/app/java\344\273\213\351\235\2422-3.jpg"
 create mode 100644 "picture/app/java\350\256\212\346\225\270\350\250\255\345\256\2
32.jpg"
 create mode 100644 "picture/app/kotlin\344\273\213\351\235\2421.jpg"
 create mode 100644 "picture/app/kotlin\344\273\213\351\235\2422.jpg"
 create mode 100644 "picture/app/kotlin\350\256\212\346\225\270\350\250\255\345\256
\232.jpg"
 create mode 100644 settings.gradle

hxuchu@DESKTOP-GKSRT8H MINGW64 ~/AndroidStudioProjects/MyApplicationlab4 (master)
$ git remote add origin https://github.com/hxuchu/chapter4.git
```

```
hxuchu@DESKTOP-GKSRT8H MINGW64 ~/AndroidStudioProjects/MyApplicationlab4 (master)
$ git push -u origin master
Enumerating objects: 85, done.
Counting objects: 100% (85/85), done.
Delta compression using up to 8 threads
Compressing objects: 100% (67/67), done.
Writing objects: 100% (85/85), 411.18 KiB | 13.26 MiB/s, done.
Total 85 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/hxuchu/chapter4.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

心得：

這次的 lab 是點飲料，利用輸入存取的方式再顯示出來，也了解到更多 java 和

kotlin 的語法，例如 switch 跟 bundle。

在轉換 code 的時候又發現更多 kotlin 的厲害，把程式碼簡了又簡，實在有厲

害。