



# Week 4: World History Functions

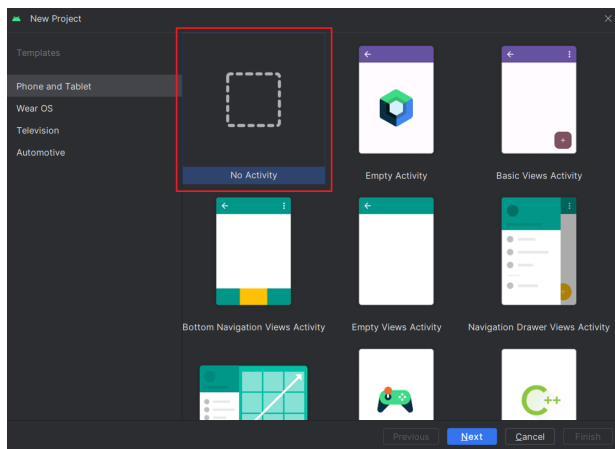
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## Instructions

### Lab 3 - 10 points

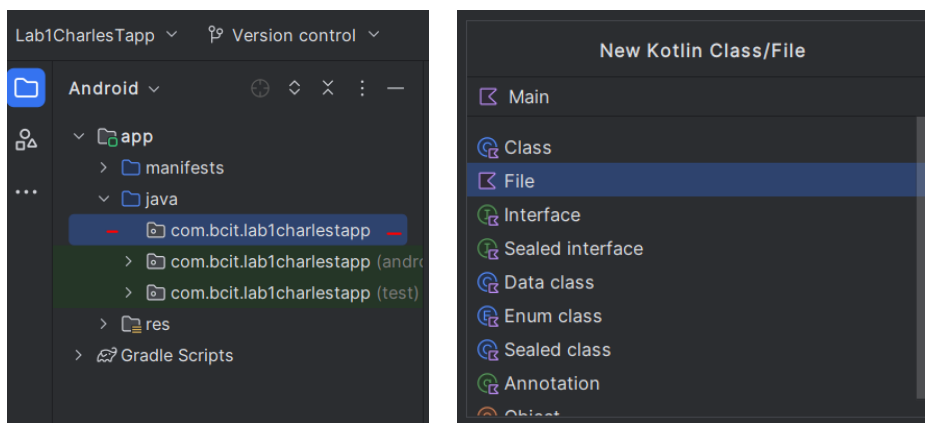
#### Setup - 2 points

1.) Create a new project with *No Activity*



2.) Name it 'Lab3YourName' (replace 'YourName' with your real name)

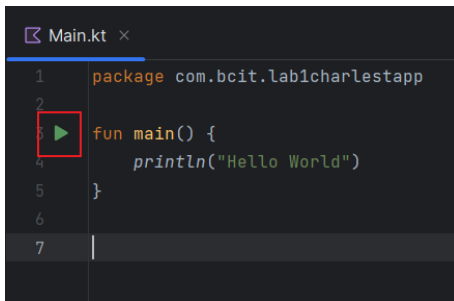
3.) On your package directory *right click* -> *New* -> *Kotlin class/file* and create a new file called *Main*



4.) Create a main function and run the program to create a configuration

Submit

Cancel

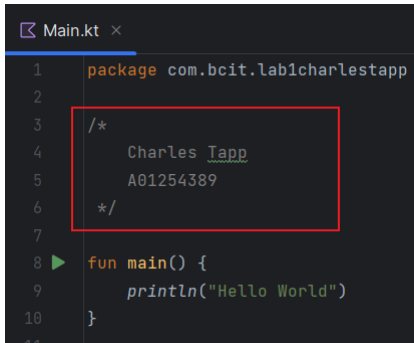


```

1 package com.bcit.lab1charlestapp
2
3 fun main() {
4     println("Hello World")
5 }
6
7

```

5.) At the top of the file comment in your name and student number



```

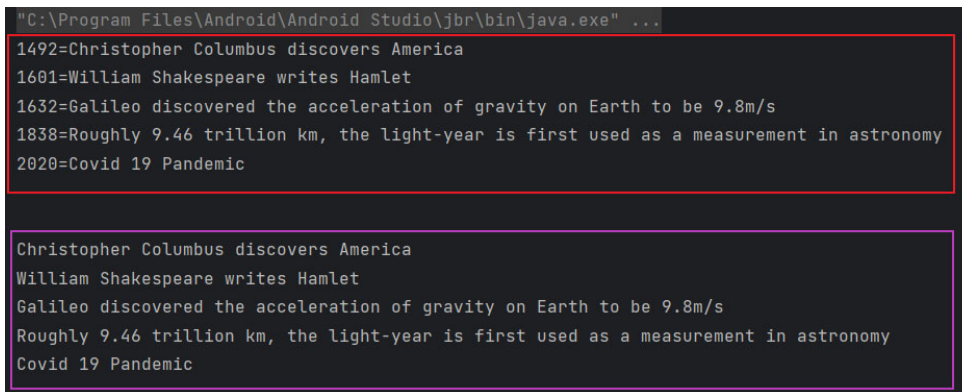
1 package com.bcit.lab1charlestapp
2
3 /*
4     Charles Tapp
5     A01254389
6 */
7
8 fun main() {
9     println("Hello World")
10 }
11

```

## Program - 8 points

Your goal in the lab is to diversify your knowledge with functions and maps and display some history facts to the console like you see in Figure 1.

Figure 1



```

"C:\Program Files\Android\Android Studio\jbr\bin\java.exe" ...
1492=Christopher Columbus discovers America
1601=William Shakespeare writes Hamlet
1632=Galileo discovered the acceleration of gravity on Earth to be 9.8m/s
1838=Roughly 9.46 trillion km, the light-year is first used as a measurement in astronomy
2020=Covid 19 Pandemic

Christopher Columbus discovers America
William Shakespeare writes Hamlet
Galileo discovered the acceleration of gravity on Earth to be 9.8m/s
Roughly 9.46 trillion km, the light-year is first used as a measurement in astronomy
Covid 19 Pandemic

```

## Rules

- Each history fact should correspond to an entry in a Map
  - The year is the key
  - The fact is the value
- The **red box** in Figure 3 is displaying the contents of the map with each entry on its own line
- The **purple box** is displaying the value of each entry in the map, each value is being displayed using its own function
  - You must use an anonymous function at least once
  - You must use a lambda function at least once
  - You must pass a function within a function at least once
    - Bonus: Pass a function within a lambda function
  - You must use a function reference (:: operator) at least once

- No two functions can have the same signature (combination of parameters and return types)
- You decide on what data to pass as arguments and what type the function should return but the arguments and return type have to be used somehow in displaying the map entry value
  - Examples of arguments you could use:
    - The map (Map)
    - A value of the map (String)
    - A key in the map (Int)
    - A Pair (the key and value from the map)
  - Examples of function return types
    - println (Unit)
    - A value of the map (String)

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When finished show your lab instructor in person to be graded immediately or submit your *Main.kt* file here to be graded later.

Due on Sep 29, 2023 11:59 PM

Available on Sep 25, 2023 7:30 AM. Access restricted before availability starts.

## Submit Assignment

Files to submit \*

(0) file(s) to submit

After uploading, you must click **Submit** to complete the submission.

Add a File

Record Audio

Record Video

Comments