# CSE 408- Lab #5 Kotlin Programming

Due: Tuesday May 26th 11:59 pm

### Lab objectives:

After the lab, you should know how to

- create and use individual repository on GitHub
- make changes to a file and push them to GitHub as commits
- install IntelliJ IDEA IDE
- write, compile and execute code in Kotlin

#### Lab activities:

- 1. write a function compare that accepts two numbers x, y. If x less than y return 1, if x>y return -1 else return 0.
- 2. Write Kotlin code to display the age group based on the map below: 0-20 Family, 60-100 senior, normal. Use the "When" statement not if else. Run the code for different ages .
- 3. For the following code: replace this if with a when(file: p3.kt)

```
fun main() {
    var cardPoints = 7_000

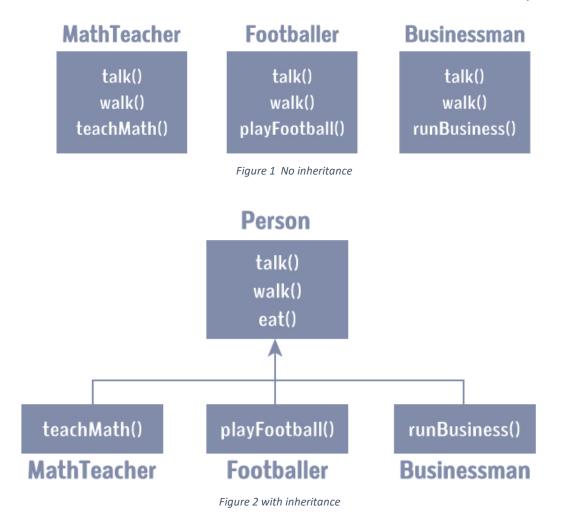
// TODO: replace this if with a when
    // try to use ranges!

val cardLevel: String = if (cardPoints >= 0 && cardPoints < 1000) {
        "pearl"
} else if (cardPoints >= 1000 && cardPoints < 5_000) {
         "silver"
} else if (cardPoints >= 5_000 && cardPoints < 10_000) {
        "gold"
} else {
        "platinum"
}

val plural = if(cardPoints > 1 || cardPoints == 0) "s" else ""
        println("You have $cardPoints point$plural and are at the $cardLevel level.")
}
```

4. Write the code to read the text file and print its content

5. Write the code to implement the inheritance described below: Individual classes without inheritance. With the use of inheritance and power of OOP



Sample run:

```
My name is Tony.
My age is 25
I teach in CSUSB.

My name is Henry.
My age is 29
I play for LA RAMS.

My name is Henry.
My age is 29
I work for FB
```

#### **Lab Deliverables:**

- 1. Create GitHub project lab5
- 2. Save all your files to GitHub
- 3. Submit the link to the repository in Blackboard
- 4. Submit the .kt files to blackboard.

## Grading

This lab is worth 100 points

#### **Resources:**

https://kotlinlang.org/

https://kotlinlang.org/docs/reference/basic-syntax.html

https://www.programiz.com/

... many more