Objectives

- Create a Java program in an IDE
- Use programming fundamentals to solve problems

Task 1

Create a new project in your IDE/editor and download the lab starter file (Main.java) from the public folder https://cs.unh.edu/~cs416/public/3L

Task 2

sleepIn

The parameter weekday is true if it is a weekday, and the parameter vacation is true if we are on vacation. We sleep in if it is not a weekday or we're on vacation. Return true if we sleep in.

```
sleepIn(false, false) \rightarrow true sleepIn(true, false) \rightarrow false sleepIn(false, true) \rightarrow true
```

Task 3

nearHundred

Given an int n, return true if it is within 10 of 100 or 200.

```
nearHundred(93) \rightarrow true nearHundred(90) \rightarrow true nearHundred(89) \rightarrow false
```

Task 4

sameFirstLast

Given an array of ints, return true if the array is length 1 or more, and the first element and the last element are equal.

```
sameFirstLast([1, 2, 3]) \rightarrow false sameFirstLast([1, 2, 3, 1]) \rightarrow true sameFirstLast([1, 2, 1]) \rightarrow true
```

Task 5

no23

Given an int array length 2, return true if it does not contain a 2 or 3.

```
no23([4, 5]) \rightarrow true

no23([4, 2]) \rightarrow false

no23([3, 5]) \rightarrow false
```

Task 6

helloName

Given a string name, e.g. "Bob", return a greeting of the form "Hello Bob!".

```
helloName("Bob") \rightarrow "Hello Bob!" helloName("Alice") \rightarrow "Hello Alice!" helloName("X") \rightarrow "Hello X!"
```

Task 7

Submit Main.java to Gradescope and confirm it runs and passes the expected tests.