

CS2365-Spring 2022  
Homework #2

1. Create a class Overloading, with three overloading methods as follows:
  - public int max (int a, int b, int c)
    - Compare parameters and return a max value
  - public int max (char a, int b)
    - Compare the integer value of character a with the integer b and return a max value
  - public int max (String str, int a)
    - Convert an integer string (e.g., "200") to an integer and compare it with the parameter a, and then return a max value

Create an OverloadingTest class that calls overloading methods below and show the results: (5pts)

```
max (50, 20, 5);  
max ("300", 400);  
max ('a', 50);  
max ("30", 10);  
max ('x', 90);  
max (20, 40, 10);
```

2. Create a Java program to create a class Car, which includes three instance variables: make (type: String), model (type: String), and year (type: int); and three methods: constructor() to initialize three instance variables with parameters received from the user; constructor() with no parameter to initialize *make* to *Ford* and *model* to *Explorer* and *year* to *2000*; and show() to display the information of a car. Write a class CarTest that creates two car objects using each constructor() and displays each car's make, model, and year using the show(). (5pts)