

## **East West University Department of Computer Science and Engineering**

## CSE 303: Statistics for Data Science LAB 02 (Exercise) Course Instructor: Dr. Mohammad Rezwanul Huq

## List Comprehension Problems

```
# Use for the questions below:
nums = [i for i in range(1,1001)]
string = "Practice Problems to Drill List
Comprehension in Your Head."
```

- 1. Find all of the numbers from 1–1000 that are divisible by 8
- 2. Find all of the numbers from 1–1000 that have a 6 in them
- 3. Count the number of spaces in a string (use string above)
- 4. Remove all of the vowels in a string (use string above)
- 5. Find all of the words in a string that are less than 5 letters (use string above)
- 6. Use a dictionary comprehension to count the length of each word in a sentence (use string above)
- 7. Use a nested list comprehension to find all of the numbers from 1–1000 that are divisible by any single digit besides 1 (2–9)
- 8. For all the numbers 1–1000, use a nested list/dictionary comprehension to find the highest single digit any of the numbers is divisible by

## **Submission Instruction:**

Create a zip file containing your python (.py) files along with the report. Name of the file should be: <your-student-id> Lab02.zip

Submit in the link given in the classroom.