

# **Week 8: COMP-801 - Integrated Computing Practice**

# Agenda

- Review for Exam 2
- `enumerate()` built-in function
- Practice exam questions and problems
- Due next week

## `enumerate()` To Get Indexes

- `enumerate()` is built-in into Python
- Gives the index and value as a tuple with each loop

```
students = ['sam', 'taylor', 'ann', 'chris']  
for idx, name in enumerate(students):  
    countdown = len(students) - idx  
    print(f'#{countdown} {name}')
```

Output:

```
#4 sam  
#3 taylor  
#2 ann  
#1 chris
```

## Practice Exam Questions and problems

- Form teams of 2 students
- Teams select question/ problem from the given list
- Teams work on the question/ problem
- Teams report out their solution
- Instructor facilitates class discussion

## Exam 2 Format

Same as Exam 1: answer questions and solve problems

- Oral, in-person
- Expected duration: 20 minutes
- Problem solving: test case, design, and implementation

## Exam 2 Resources

- Active reading feedback reports
- Your work in labs and homework assignments
- Feedback to labs and homework
- Q&A with CAs and instructors

## Exam 2 Concepts Include:

- Value, data type, operator, expression, and statement, module
- Function/ method definition, function/ method call, parameters, arguments
- Class definition, attributes, methods, constructor, object instantiation
- Built-in data types (or classes):  
    `str`, `list`, `tuple`, `dict`, `range`, text file
- Accumulation pattern