TUTORIAL 00

Resources and Course Review

CS116

- Now all in Python!

- More than just Python though

- Assignments are due every <u>Wednesday at 10AM</u>

- <u>Midterm: 19:00 – 20:50, Monday, March 2nd</u>

CQ1:

On which day of the week are tutorials given?

A. Thursday
B. Friday
C. Saturday
D. Caturday
E. Where am I?

MarkUs

- Found under Assignments -> MarkUs

- Do NOT use Internet Explorer (it does not work)

- Ensure the filenames match the given filenames

  - E.g. "a00q4.py", NOT "aOOq4.py"
- Submit EARLY and OFTEN

- Check the public test results after submitting

- More information on the course website if you need more help

Piazza

- Discussion forum to ask questions and clarifications about assignments and course materials

- All announcements about the course will be posted on Piazza instead of course website.

- Activate your account by following the link sent to your UW email address

Removing Email Messages on Piazza

1. Top-right corner (Gear Icon)

2. Account/Email Settings

3. Scroll down to Class & Email Settings

4. Click "No Emails" for both options

5. Save Settings

Account/Email Settings

Turn off Tooltips

Contact Us

Report Bug

Piazza Homepage

Log Out
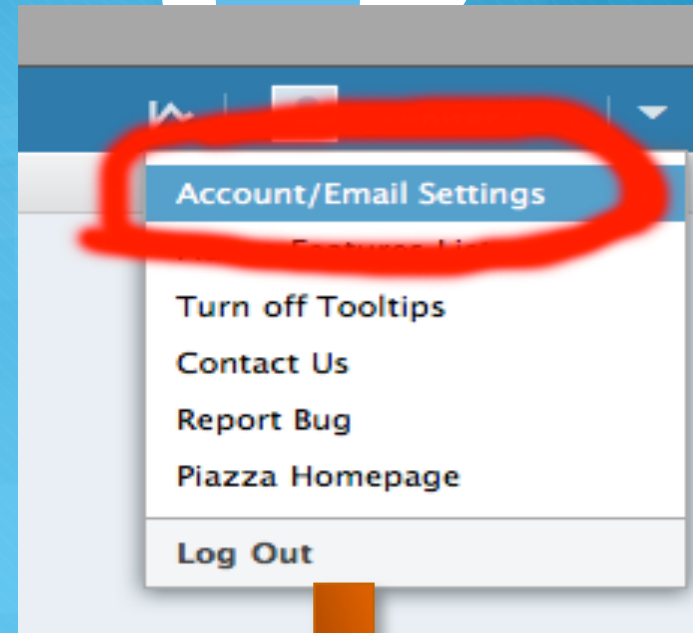
Class & Email Settings

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Edit Email Notifications

For new Quest...
○ Real Tim... ● No Emails ○ Daily Digest ○ Smart Digest per [1 hour ⬍]

For updates to Questions or Notes you follow (by default you don't follow anything):
○ Real Time ● No Emails
☐ Automatically follow every Question and Note

Save Settings Cancel

Piazza Tips

○ Do NOT post any code related to assignment questions

○ Do NOT post questions asking for someone to debug your code

○ Please post your questions to the correct folder.

Select 'Instructors' if it's a personal code-related question.

It's private.

Preserves Academic Integrity

- Read assignment CAREFULLY before posting on Piazza. Your question may have already been answered.

- Use Piazza search function to avoid repeated questions.

  - Search under the assignment folder first.

- Use meaningful

  names when posting

  new topic

e.g. "Values consumed

for a01q3", NOT "a01q3"
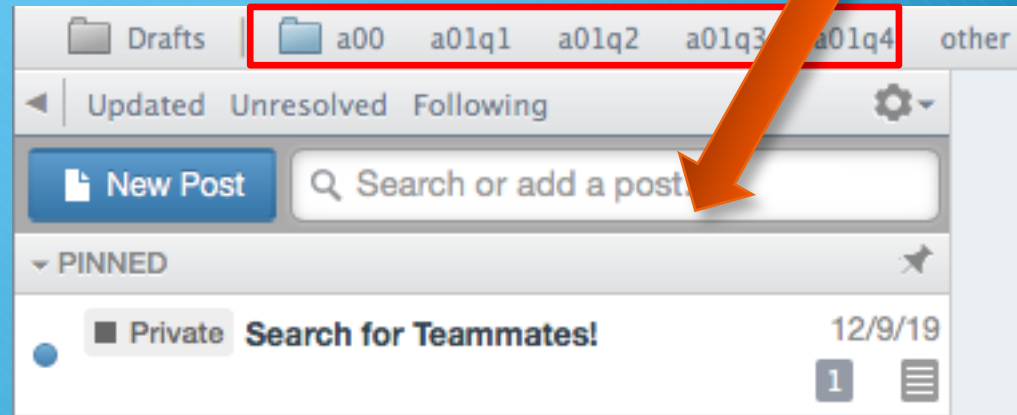
CQ2:

Which Piazza post name is most preferred?

A. "Question Clarification"
B. "Assumption about a...q..."
C. "I need help!"

Design Recipe Review

```
import check

fn_name(p1, … , p_n):
'''
    returns …

    fn_name: Type1 … Type_n -> Type of Returned Value
    requires: …
    Examples:
        fn_name(val1_a, … , val_n_a) => result1
        fn_name(val1_b, … , val_n_b) => result2
'''
Function body

# Tests
```

Purpose

- Briefly describe what your function does
  - i.e how it uses the consumed values to return the returned values
- Mention the names of your parameters
- Do NOT copy and paste from the assignment question. We WILL deduct marks!

Contracts - Overview

- Capitalize the first letter of each data type

- Be specific:

  - Between `Nat, Int` and `Float`

  - Add requirements as needed:

  - be sure to mention parameter (by name) that the requirement applies to

- Please refer to page 3&4 of CS116 Style Guide for specific data types

Contracts - Common Mistakes

- Improper type names - check the Style Guide
  - e.g. Use `Str`, NOT `String`
  - Capitalization - e.g. Use `Int`, not `int`
- Incorrect types
- No restrictions
- Wrong number of parameters

Examples

- Unlike in CS115, all examples in CS116 are part of the docstring and are not actual function calls .

- Always include at LEAST 2 examples

  - for recursive functions:
    - Base case
    - Non-base case

Tests

○ Download the file `check.py` from the CS116 web page

○ Put a copy in the same folder where you save your assignments.

○ Add the following line at the top of each assignment file:

```
import check
```

Tests

```
## Tests
check.expect("Q1T1", expr, value_expected)
OR
check.within("Q1T1", expr, value_expected, tolerance)
```

○ Examples should be included with the test cases.

○ Include ALL base cases and some non-base case tests

○ You will learn about different `check` functions in the future.

Style Suggestions

- Lines should not be longer than 80 characters
- Add at least two blank lines between functions
- Use meaningful names for helper functions, parameters, variables, constants, etc.
  - E.g. `total_amt`, not `x`
- Simplify code as much as possible!
  - Use helper functions for repeated code

Tips

- Check Piazza daily for any announcements
- READ assignment carefully for any restrictions
  - Check post on Piazza for allowable functions
- Check basic tests to see if your code works
  - WARNING: This is NOT a thorough testing of your code

- Do NOT copy and paste anything directly from assignment pdf file.

- Get help:

  - Instructor and ISA's office hours
  - Book an appointment with us if necessary
    cs116@uwaterloo.ca

- Be careful. Do NOT Cheat!
  - NEVER show any student your code
  - Discuss verbally without taking notes
  - Penalty for cheating is 0 on that question and -5% on your final grade, and possibly further disciplinary action

CQ3:

Have you already installed Python 3 and Wing IDE?

A. Yes
B. No
C. What?

Home / Announcements
Accessibility
Assignments
  Academic Integrity
  Marking Rubric Example
  MarkUs
  MarkUs Help
  Postmortems
  Assignment Solutions
Getting Help
  Piazza
  Piazza Help
  CS Advising FAQ
Grading
iClickers
  Clicker Info
Personnel
  Office Hours
Programming Style
Required Software
Textbook and Resources
Timetable / Course Notes
  Corrections to Course Notes
  Additional Materials
Tutorials

Install Python and Wing IDE

https://www.student.cs.uwaterloo.ca/~cs116/software

* Any version of python 3 works!

Attention: Clickers!

Lectures:

You MUST go to your own section to obtain marks!!!!!!!!!

a00q4.py

```python
my_tutorial_section = ...
my_tutorial_leader  = ...
```

Good Luck!

Questions?