Compsci 101
Introduction
Live Lecture

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```
st = f.read().decode('utf-8')
st = st.lower()
total = len(st)
```

Announcements

- Second Survey out yesterday– complete this week
- Lab 1 is Friday
- Prelab 1 before lab– Install Python/Pycharm
  - Ways to get help:
    - Office hours, consulting hours
    - Post on Piazza – what type of machine, etc
    - https://colab.duke.edu/resources

- Back channel with Ms. Velasco: Piazza lecture note
- QZ01 due today at 1:45pm (but up through 8/31)
- Assignment 1 - Lightbot due 2/2

Is this the right course for you?

- CompSci 101
  - beginner
  - little or no programming experience
- CompSci 201
  - 4/5 on AP CS A
  - OR Programming Experience in Python or Java or ?
    - Problem solving with arrays or lists
    - Looping structures (while/for)
    - Writing functions/methods
    - Problem solving with Sets, Dictionaries or maps?

Can’t take CompSci 101 if

- You already took CompSci 201, or CompSci 116, or ENG 103 ……
- You won’t get credit for this course
- This is a beginner course

Practice, Practice, Practice

Practice results in Success

Don’t get behind!!!

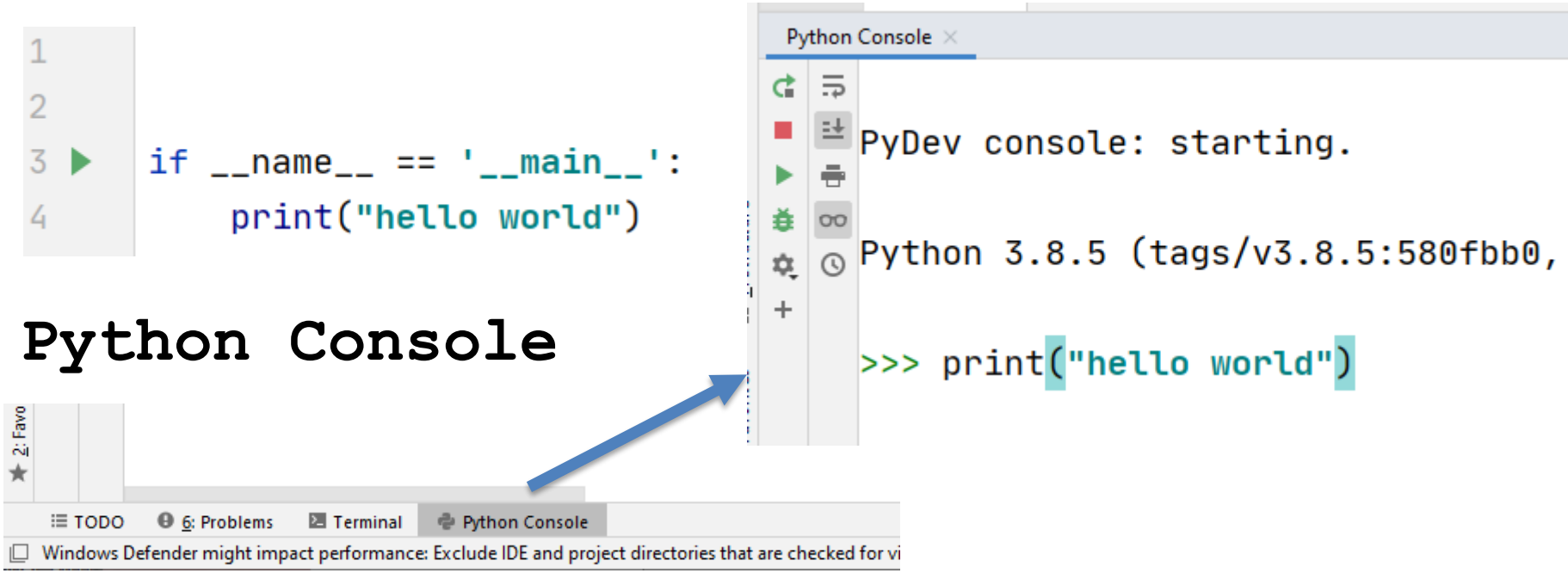
- Difficult to catch up…

Understanding Code

Python Program

```
1
2
3 ▶  if __name__ == '__main__':
4        print("hello world")
```

Python Console



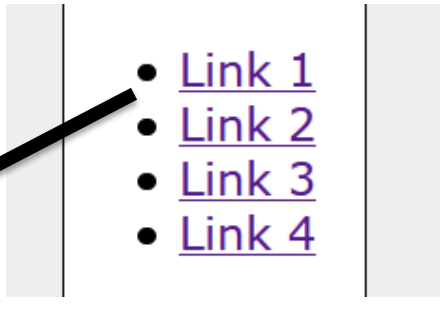
print("hello world")

```
hello world
```

Understanding Code

How Breakout Groups Work with Google form links

- **Given a bitly link**
  - Type it in OR click on it on the calendar page
  - http://bit.ly/101s21-0126-1
- **What you should do:**
  - Introduce yourselves
  - Each person fills out the google form
  - Includes your email, name and netid
  - Discuss each question and fill out
  - Be mindful of time



WOTO-1 Understanding Code
http://bit.ly/101s21-0126-1

Understanding Code
http://bit.ly/101s21-0126-2

Barbara Liskov

- Among first women in US to earn Ph.D. in Computer Science: 1968
- Turing Award 2008, SE and PL
- Object-Oriented
  - CLU
- Liskov Substitution Principle

"Every time you exchange e-mail with a friend, check your bank statement online, or run a Google search, you are riding the momentum of her research" – MIT President Rafael Reif about Liskov

Basic Python
http://bit.ly/101s21-0126-3