Programming Foundations in
Python
Adapted From:
CMSC 201
Computer Science I for Majors

Lecture02a – Intro to Python



Last Class We Covered What?

Any Questions from Last Time?

Today's Objectives

- To start learning Python
- To learn about the Python programming environment
- Written programs vs Python interpreter

Python

- Python is a widely used language
 - -General purpose
 - -High-level language
- Emphasizes code readability
 - More streamlined than some other languages

Python Interpreter

Python Interpreter: https://repl.it/repls/UnpleasantGlaringBooleanvalue

Python Shell: https://www.python.org/shell/



"Hello World!"

```
•In Python:
print("Hello World!")

•In the C++ programming language:
#include<iostream>
int main() {
    std::cout<<"Hello World!\n";
}</pre>
```

Written Programs vs Python Interpreter

We Started Python Today!

- Two ways to use Python
 - -You can write a program as a series of instructions in a file and then execute it
 - You can also test simple Python commands in the Python interpreter

Use the interpreter to help you test things

Written Programs

- Create, write, and save a Python file (.py)
- •File is run via the command line python myProgram.py
- •File must be complete to run correctly
- Program cannot be edited on the fly
 - -Must be exited, file re-opened, changes made, file saved and closed, and then re-run the program

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Python Interpreter

- •The "interactive" interpreter evaluates each individual line of code as it's typed in
- •Type "python" to launch the interpreter

