**Presentation Notes:**

1. What are the four functions of a computer program listed on the lesson slide?
   1. How typing is displayed
   2. It controls what happens when you click a mouse button
   3. Controls hardware for the computer system.
   4. Decides how input devices affects output devices
2. Provide an example of a computer input that is not listed on the lesson slide.
3. Buttons on a monitor
4. Power button
5. Provide an example of a computer output that is not listed on the lesson slide.
6. Speakers
7. Headphones
8. GPS
9. Provide another example of how a computer input affects a computer output that is not listed on the lesson slide.
10. Power button decides when to turn on/off the computer
11. Buttons on the monitor decides when to turn on/off the monitor.
12. Provide an example of how changing the program changes how computer inputs affect computer outputs that is not listed on the lesson slide.
13. Photoshop vs. PowerPoint
14. Animation vs. Computer Games
15. What are some examples of devices that are not traditional computers but that make use of computer programs?
    1. Gaming system
    2. Cars
    3. Industrial robots
16. Provide another example of a device that makes use of a computer program that is not listed on the lesson slide.
17. Toy Cars
18. GPS
19. What is another term for a computer program?

Computer software

1. What are some ways that computer software is different from computer hardware?

Software is flexible and easy to change whereas hardware is hard to change.

1. How are computer programs written?
2. Why are computer programs composed of many lines of computer code?
3. List some examples of different computer languages.
   1. Python
   2. Seed/ Seed Plus
   3. Java
   4. COBOL
4. List some of the benefits of the Python computer language.
   1. Professional
   2. Good for writing small programs
   3. Easy for beginners
   4. Language of choice for 1st year university courses.
5. Once you finish this course, how could you answer someone who asks you "Do you know how to program in Java?"

Yes, I could easily program in Java as once you know how to program in a different language, its easy!

1. Could you use Microsoft Word to write a computer program? Explain.

You can use Microsoft Word to write a computer program but it wouldn’t be as efficient as Python.

1. What does IDE stand for?

Integrated Development Environment

1. What are some features of an Integrated Development Environment?
   1. Color coding of keywords
   2. Indentation and completion control
   3. Error Checking
   4. Runtime support and debugging
2. What are some factors to consider when choosing an Integrated Development Environment?
   1. How well does it support your chosen language?
   2. Is it web based or a download install?
   3. Other factors…
3. What is the name of the IDE that we will be using to create our Python programs?

The IDE that we will be using is Repl.it

1. What version of Python will we be using?

3.7.3

1. Draw a sketch of the Repl interface showing the three work areas (panels)
   1. Label each panel
   2. Summarize the function of each panel

**Student Questions:**

1. Create an account for yourself at www.repl.it
   1. Review the "Terms of Service" to verify that you can legally use this service.
   2. Follow the previous discussed guidelines regarding use of personal information
2. List the part of the "Terms of Service” that verifies that you can legally use this service.

When you create an account using Repl.it, you must be 13 and older, and the information you provide Repl.It must be accurate, complete, and current at all times.

Explain some of the rights that you give away to Repl.it regarding content you create using their service?

Inaccurate, incomplete, or obsolete information may result in the immediate termination of your account on the Service

1. Create a new Python repl and call it "Hello World".
2. Copy and paste the following program into the program panel (white area)

userName = input("Please type your name: ");

print("Hello", userName, "welcome to Python!")

1. Run the program to see what it does. (If necessary, fix the quotation marks so it runs properly.)
   1. Explain how the program works.

To make the program work, you must enter your name and then it will say “Welcome to Python.

* 1. Explain how you fixed the program (if necessary)

It worked perfectly fine for me, so I didn’t need to fix anything.

1. Try using the console pane (black area) to perform some simple calculations and run some one-line programs.
   1. Summarize some of your calculations.

Using the Repl.It, I made multiple calculations including one that asks you what your age is.

1. Try using the file management pane to add some files and folders to your repl.
   1. Summarize some of your additions.

I created three folders, each named “Topic A” “Topic B” and “Topic C” while on the file management pane.