**Presentation Notes:**

1. What are the four functions of a computer program listed on the lesson slide?
   1. Controls hardware for the computer system
   2. Decides how input devices affects output devices
   3. How typing is displayed
   4. It controls what happens when you click a mouse button
2. Provide an example of a computer input that is not listed on the lesson slide.

* Buttons on a monitor
* Power button

1. Provide an example of a computer output that is not listed on the lesson slide.

|  |  |
| --- | --- |
| * Speakers | * Headphones |
| * GPS | * Projector |

1. Provide another example of how a computer input affects a computer output that is not listed on the lesson slide.

* Power button decides when to turn on/off the computer
* Buttons on the monitor decides when to turn on/off the monitor

1. Provide an example of how changing the program changes how computer inputs affect computer outputs that is not listed on the lesson slide.

|  |  |
| --- | --- |
| * Photoshop vs. PowerPoint | * Animation vs. Computer Games |
| * Settings vs. Animation | * Settings vs. Photoshop |

1. 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
   4. Internet
   5. Kitchen Appliances
2. Provide another example of a device that makes use of a computer program that is not listed on the lesson slide.

* Toy cars
* GPS

1. 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 flex able and easy to change whereas hard ware is hard to change.

1. How are computer programs written?

They are written in plain text

1. Why are computer programs composed of many lines of computer code?

Each line is something simple

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

Yes, I could since it is easy to learn how to program in any language once you know how to program in a different language.

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

You could but you should not because it lacks support for computer programming.

1. What does IDE stand for?

Intergraded Development Environment

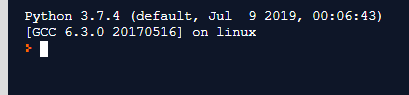
1. What are some features of an Integrated Development Environment?
   1. Colour coding of keywords
   2. Indentation of completion control
   3. Error checking
   4. Runtime support and debugging
   5. Run program directly from IDE
2. What are some factors to consider when choosing an Integrated Development Environment?
   1. How well does it support your chosen language?
   2. Is it web based or do you have to install it?
   3. Do you have to pay?
3. What is the name of the IDE that we will be using to create our Python programs?

Repl.it

1. What version of Python will we be using?

Python 3.7 not Python 2.7

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 a repl account you have to be at least 13 years of age (or older). You must also give 100% accurate and real information to create an account.

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

If one gives any inaccurate information, their account could be terminated and discontinued. They must also give at least the bear minimum amount of information that is required.

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.

This program is quite simple as the input feature requires your name, and the print feature displays text

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

I did not need to fix the program.

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.

The text that is displayed on the black pane is controlled by the text that is inserted into the white pane. I manipulated this to make the program longer and more complex with a back and forth conversation.

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

While on the file management pane, I added three folders, each named “Topic A” “Topic B” and “Topic C”. This will help me create a repl for each assignment I am given.