**Presentation Notes:**

1. What are the four functions of a computer program listed on the lesson slide?
   1. Industrial robots
   2. Cars (not just self driving)
   3. Kitchen Appliances
   4. internet / Social Media Bots

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

A Scanner is a example of an another input of a computer.

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

A Projector is also an example of a computer output.

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

such as modems and network cards can affect the output.

1. Provide an example of how changing the program changes how computer inputs affect computer outputs that is not listed on the lesson slide.
2. What are some examples of devices that are not traditional computers but that make use of computer programs?
   1. The Mainframe **Computers**
   2. Supercomputer
   3. Minicomputers
   4. Desktop Casing
   5. Personal **Computers**
3. Provide another example of a device that makes use of a computer program that is not listed on the lesson slide.

A mouse is an another device that allows the computer program to be controlled easier.

1. What is another term for a computer program?

* Computer Software

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

Computer software is what is to be controlled in the interior, in which it processes human commands and allows us to perform tasks. Computer hardware is where we control the exterior for the computer which allows us to perform the computer.

1. How are computer programs written?

Computer programs is written through coding languages such as python, html, C+, etc.

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

Because a computer requires lots of programs to be performed, which this gives the codes to have many lines for different programs.

1. List some examples of different computer languages.
   1. Phyhton
   2. C+
   3. Html
   4. java
2. List some of the benefits of the Python computer language.
   1. Is a "professional" language with a large user base
   2. Is good for prototyping small programs
   3. It is a good beginner language
   4. It is the language of choice for 1st year university courses

1. Once you finish this course, how could you answer someone who asks you "Do you know how to program in Java?"

I can confidently give the answer that I can code program java.

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

I think not, word is only a program where we can type documents, however we can write codes but this won’t be as good of an experience as a real coding console.

1. What does IDE stand for?

Integrated Development Environment

1. What are some features of an Integrated Development Environment?
   1. Colour coding of keywords
   2. Indentation and completion control
   3. Error Checking
   4. Runtime support and debugging

1. 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…
2. 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?
2. version is 3.7.3
3. 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.
3. Explain some of the rights that you give away to Repl.it regarding content you create using their service?
4. Create a new Python repl and call it "Hello World".
5. 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.
   2. Explain how you fixed the program (if necessary)
2. Try using the console pane (black area) to perform some simple calculations and run some one-line programs.
   1. Summarize some of your calculations.
3. Try using the file management pane to add some files and folders to your repl.
   1. Summarize some of your additions.