**Presentation Notes:**

1. What are the four functions of a computer program listed on the lesson slide?
   1. A Computer Program controls the hardware of a computer system.
   2. It makes decisions about how input devices affect output devices
   3. Displays things

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

Keyboard

mouse

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

Speakers

1. Provide another example of how a computer input affects a computer output that is not listed on the lesson slide.
2. Provide an example of how changing the program changes how computer inputs affect computer outputs that is not listed on the lesson slide.

Video editor

1. What are some examples of devices that are not traditional computers but that make use of computer programs?
   1. Smart phones
   2. Gaming consoles
   3. Gamepads
   4. GPS
   5. Cars
2. Provide another example of a device that makes use of a computer program that is not listed on the lesson slide.

Industrial robots

1. What is another term for a computer program?

Software

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

Computer hardware cannot be changed while software can

1. How are computer programs written?

Computer programs are like a file just like any other and can be written in plain texts and many different languages.

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

This is because these lines are very simple commands and need many to make a computer program useful.

1. List some examples of different computer languages.
   1. Python
   2. Java
   3. C+
   4. Cobol
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 you know one language in programming then you can switch between the others.

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

Yes, you could as you are entering text but there are limited tools so there are better ways to do it

1. What does IDE stand for?

Integrated Development Environment

1. What are some features of an Integrated Development Environment?
   1. Color coding
   2. Key words
   3. Indentation and completion control
   4. Error Checking
   5. Runtimesupport and debugging

1. What are some factors to consider when choosing an Integrated Development Environment?
   1. Is it good for the language?
   2. Is it web based or download install
   3. price
2. What is the name of the IDE that we will be using to create our Python programs?

Repl

1. What version of Python will we be using?

Python 3.7

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.
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.

When I input the code, it asked for my name

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

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.

2+2

5\*100000

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

Math