**Presentation Notes:**

1. What are the four functions of a computer program listed on the lesson slide?
2. Provide an example of a computer input that is not listed on the lesson slide.
3. Provide an example of a computer output that is not listed on the lesson slide.
4. Provide another example of how a computer input affects a computer output that is not listed on the lesson slide.
5. Provide an example of how changing the program changes how computer inputs affect computer outputs that is not listed on the lesson slide.
6. What are some examples of devices that are not traditional computers but that make use of computer programs?
   1. Industrial robots
   2. Cars (self drving)
   3. Kitchen appliances
   4. Internet/social media robots
7. Provide another example of a device that makes use of a computer program that is not listed on the lesson slide.

* toys

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 much easier to change and uses logic while computer hardware is harder to change, involves wires and physical materials.

1. How are computer programs written?

* Computer programs are written is plane text

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

* Computer programs are composed of many lines of computer codes because each line of a computer program is a simple logical statement or command

1. List some examples of different computer languages.
   1. C/C+ for engineering
   2. Java for web application development
   3. Python
   4. COBOL/SQL for business
2. List some of the benefits of the Python computer language.
   1. Professional language with a large user base
   2. Good for prototyping small programs
   3. Is a good beginner language
   4. Is the 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?"

* I would say “yes, I know how to use and program using Java”

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

* No, you can’t use Microsoft Word to write a computer program because Microsoft Word doesn’t have all the to tools needed for programming. it is mainly used for essays and writing text.

1. What does IDE stand for?

* IDE stands for Integrated Development Environment

1. What are some features of an Integrated Development Environment?
   1. Colour coding for 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 download install?
   3. Does it cost money?
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?

* We will be using the Python 3.7.3 version

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.

* You must be at least age 13 or older to create an Account or use the Services.

1. Explain some of the rights that you give away to Repl.it regarding content you create using their service?
2. Create a new Python repl and call it "Hello World".
3. 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.

* Code and then run the program if there’s a mistake it will show “syntax error” in red
  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. Try using the file management pane to add some files and folders to your repl.
   1. Summarize some of your additions.