**Presentation Notes:**

1. What are the four functions of a computer program listed on the lesson slide?
   1. Computer programs are created using a   
      keyboard and editor
   2. Computer programs are stored in a file which   
      may be loaded and executed by a computer
   3. Computer programs can be written in many
   4. different Computer Languages

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

A Microphone

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

Headset

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

Speech to text: if you speak into the microphone it converts into text on the computer

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

If you change the program you change what the output is different programs are used for different things such as creating applications or creating games

1. What are some examples of devices that are not traditional computers but that make use of computer programs?
   1. A phone
   2. Gaming console
   3. Smart watch
   4. Smart Tv
2. Provide another example of a device that makes use of a computer program that is not listed on the lesson slide.

A smart clock

1. What is another term for a computer program?

It is also known as computer software

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

The differences are that software uses Logic which is flexible and easily changed and hardware uses physical devices which are hard to change.

1. How are computer programs written?

* Computer Programs are written in Plane Text
  + Computer programs are created using a   
    keyboard and editor
  + Computer programs are stored in a file which   
    may be loaded and executed by a computer
  + Computer programs can be written in many

different Computer Languages

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

There are many lines in a computer program because each line of code has its own purpose.

1. List some examples of different computer languages.
   1. java
   2. python
   3. c/c+
   4. cobl
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
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 can program some things in java as every language has the same concept, but I probably won’t know things here and there”

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

You can use Word but it is not as efficient as repl.it. In word, you can not identify errors and there is not a debugger option.

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
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?

Repl.it

1. What version of Python will we be using?

Python 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.
3. Explain some of the rights that you give away to Repl.it regarding content you create using their service? You give away your student Id
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!")

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.