**Presentation Notes:**

1. What are the four functions of a computer program listed on the lesson slide?

a. Make decisions on how input devices will affect output devices

b. controls hardware of a computer system

c. controls what happens if you click the mouse button

d. allows you to change functions of one hardware

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

One example of a computer input would be you phone when you press something on it will respond with an output

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

One example of an output would be a robot’s movements

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

One example would be if you clicked on a program or software with your mouse the computer would respond by opening that program or software

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

An example of changing computer programs and it affecting the output with the same input can be video games, in video games the controls for movement are switched to w,a,s,d to move your character which would be the output

1. What are some examples of devices that are not traditional computers but that make use of computer programs?
   1. Refrigerators
   2. Alarm clocks
   3. Robots
   4. Cars
   5. Toasters
2. Provide another example of a device that makes use of a computer program that is not listed on the lesson slide.

An example of a device that uses computer program is a telephone as Party’s such as liberal us computer programs to send messages and voicemails to make people vote for the.

1. What is another term for a computer program?

Another term for computer program can be Computer software

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

Software uses logic and it is easily changed whereas hardware uses physical circuits and it is very difficult to change

1. How are computer programs written?

Circuit programs are written in text, can use text editors. You type it in through your keyboard which then you store in a file which then you can run a computer code on your computer.

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

Each line does a very simple command, in order to have a computer code that is complete it has to be composed with many line.

1. List some examples of different computer languages.
   1. Python
   2. C/C+
   3. Java
   4. SQL
2. List some of the benefits of the Python computer language.
   1. Good for prototyping small programs
   2. It’s a professional with a large user base
   3. Good beginner language
   4. Language of choice for first 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 answer with Yes because since I have experienced one coding language it would be easy to grasp the other coding languages

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

Yes, programs can be written in nearly any text editor however it lacks support which makes programming harder

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 of keywords
   2. Indentation and completion control
   3. Error checking
   4. Runtime support and debugging
   5. Find problems right when writing code
2. What are some factors to consider when choosing an Integrated Development Environment?
   1. Support for chosen language
   2. Web based or download
   3. Does it cost money?
3. What is the name of the IDE that we will be using to create our Python programs?

The IDE that we are going to use to create our Python program is Relp.it

1. What version of Python will we be using?

The version of python we will be using is 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

Use white area for longer programs

Use black area for simple commands or one line

Buttons at top to run your program

**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.