**Support Video(s):**

**Install Python**  
<https://www.youtube.com/watch?v=meW3mcmpHMk>

**Install VSCode and Python**

**https://www.youtube.com/watch?v=meW3mcmpHMk**

**Directions: Create a .doc file, and paste evidence of completed tasks, such as screenshots.**

**COMMENT YOUR CODE!!!!!!!!!!**

**TASK ONE**

Read support documents carefully to Install Python. And then install Visual Studio Code (VSC).Finally, configure VSC for Python.

**TASK TWO**

List three interesting aspects of Python.

1. Python is a general-purpose programming language that blends procedural, functional, and object-oriented functionality.
2. Python is widely applicable in its use, it can be used for automating operating system tasks, as a control language within other applications to extend the functionality of an existing app or program, and has great ease of use in its readability and accessibility for users of all experience levels.
3. It is one of the most widely used programming languages across all industries. Nearly every major app and technology company is using Python programming in some capacity.

**TASK THREE**

Go to:  
https://www.python.org/  
Click on “yellow box” below Documentation.  
Type "import this"  
Pick three statements that seem interesting; explain them.

“Simple is better than complex”. – To me this statement is interesting in how I like to write code, but in that Python as a language is very simple. It uses plain language to form programming logic that is very easy to learn as well as to construct concise and readable applications.

“In the face of ambiguity, refuse the temptation to guess”. – This statement is interesting to me because I very much like to understand the foundational concepts and lexicon of a subject that I am studying. As it relates to Python as a language, I believe this speaks to the wealth of documentation and the large community of programmers that can offer advice and clarity on topics pertaining to the language that one may be confused by when learning the language.

“If the implementation is hard to explain, it’s a bad idea. If the implementation is easy to explain, it may be a good idea.” – This statement is interesting to me as it articulates my general feelings around programming, in that the core concept of any application or program and its abstraction through the design patterns of the system one is trying to build should be easy to explain. Keeping a large idea simple in its scope allows you to build it very simply and efficiently, and then add functionality as you scale the program. Python as a language, in my experience using it is very well suited to this type of programming. Additionally, it’s portability as a language is useful in that it is very easy to share your code and execute it on any machine capable of running python, allowing you the ability to test it in many different scenarios and allow others to interact with it and give feedback on its functionality.

**TASK FOUR**

Go back to homepage on the python.org site. Try scripts that are shown in boxes 1 through 5. Paste code here:

Text

Description automatically generated

A picture containing text

Description automatically generated

Text

Description automatically generated

A picture containing diagram

Description automatically generated

Graphical user interface, text

Description automatically generated

**TASK FIVE**

Write a program that simulates a ticket-taker (or usher) saying ‘Tickets, please.’ The user can add ANY RESPONSE, BUT the usher repeats “Tickets, please” IF and ONLY IF a response of “here” (as in “here you go”) is given.

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated with medium confidence

**TASK SIX**

Use the “range” command to create the below pattern in SCRIPT mode.

A picture containing shape

Description automatically generated

Graphical user interface, text, application

Description automatically generated

**TASK SEVEN**

Use the “range” command to create the above pattern in IDLE.

Text

Description automatically generated

Ran out of time.