**Presentation Notes:**

1. What are the two main parts of a computer architecture?
   1. Ram memory
   2. Cpu processor
2. Google “basic Python commands” and list four commands.
   1. def
   2. del
   3. elif
   4. else
3. Identify the two *syntax errors* in the following command: **Print("This command prints messages)**
   1. quotations
   2. brackets
4. Summarize the cause and effect of a *syntax error*.

and missing quotations, brackets, etc. are a frequent errors effecting the system to not perform.

1. Explain what happens if you use a variable before it is defined.

Variables must be defined before they are used

Use of an undefined variable results in a **Run-Time** program error

1. Summarize the cause and effect of a *run-time* error.

A **runtime error** is a program **error** that occurs while the program is running. ... Another type of **runtime error** is a memory leak. This type of **error causes** a program to continually use up more RAM while the program is running.

1. Write a Python statement to assign the value of 24 to the variable classSize.

1. Create a valid Python variable name to store a student exam mark and that follows the “mixedCase” style guidelines.
2. Create a valid Python variable name to store a student exam mark and that DOES NOT follow the “mixedCase” style guidelines.
3. Write a mathematical expression that assigns a value of 62 to the variable myAnswer.
   1. myAnswer =

1. Write a mathematical expression that uses the variable aNumber and assigns a value of 77 to the variable myAnswer.
   1. aNumber =
   2. myAnswer =
2. Change the program on the last slide of the presentation to calculate and print out the cube (power 3) of an input number.

**Student Questions:**

A resource for Python Style guidelines mal be found here:

[https://www.python.org/dev/peps/pep-0008/#naming-conventions](https://www.python.org/dev/peps/pep-0008/)

1. Identify which of the following are valid Python variable names (even if they do not follow the mixedCase style guidelines).

|  |  |
| --- | --- |
|  | True / False |
| StudentNumber | False |
| 5thRow | False |
| else | True |
| break | True |
| Row\_5 | False |

1. Identify which of the following are valid Python variable names that also follow the mixedCase style guidelines.

|  |  |
| --- | --- |
|  | True / False |
| StudentNumber | False |
| studentNumber | True |
| row | False |
| row5 | True |
| Row5 | false |

1. Summarize the difference between a *syntax error* and a *run-time* error.

Syntax error occurs when we type something opposite from the rule of python’s coding, and an run time error occurs when the execution of the program.

1. Write an expression that calculates the cost of 6 slices of pizza at 2 dollars a slice assigns the result to a variable in RAM memory. Use proper style and meaningful names for your variables.
2. Write an expression that calculates the cost of a variable number slices of pizza at 2 dollars a slice assigns the result to a variable in RAM memory. Use proper style and meaningful names for your variables.
3. Write a program that gets the number of slices from the console input, uses your expression in #5 above, and prints out the result to the console output. Use proper style and meaningful names for your variables and meaningful messages for your input and print commands.
4. Extend your program in #6 above to also calculate and print out the number of boxes of pizza if each box contains 8 slices.