**Presentation Notes:**

1. What are the two main parts of a computer architecture?
   1. Ram Memory
   2. Cpu processer
2. Google “basic Python commands” and list four commands.
3. First Python Program. Let us execute programs in different modes of programming. ...
4. Python Identifiers. A Python identifier is a name used to identify a variable, function, class, module or other object. ...
5. Reserved Words.
6. Lines and Indentation. ...

1. Identify the two *syntax errors* in the following command: **Print ("This command prints messages)**
   1. The python language is very sensitive to the formatting of commands
   2. Typos and missing quotations, brackets, etc. are a frequent error
2. Summarize the cause and effect of a *syntax error*.

A Syntax Error can be caused by a variety of factors. Most commonly, Syntax Errors are caused by misspellings or bad punctuation. The effect of a syntax error is that the code will not run.

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

The use of an undefined variable results in a Run-Time program error.

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

A run-time error is caused by poor programing and if you have another program running poorly on your computer, it can affect other programs. Another cause is by aging or damaged hardware, or even a virus. The effects of this are half of the program may work and the other may not.

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

myAnswer=24

classSize=myAnswer

print ("classSize is:",myAnswer)

1. Create a valid Python variable name to store a student exam mark and that follows the “mixedCase” style guidelines.

studentGrade=84

classMarks=studentGrade

print ("Class Marks are:", studentGrade)

1. Create a valid Python variable name to store a student exam mark and that DOES NOT follow the “mixedCase” style guidelines.

STUDENTGRADE=84

CLASSMARKS=STUDENTGRADE

print ("Class Marks are:",

STUDENTGRADE)

1. 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 |  |
| 5thRow |  |
| else |  |
| break |  |
| Row\_5 |  |

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

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

1. Summarize the difference between a *syntax error* and a *run-time* error.
2. 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.
3. 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.
4. 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.
5. Extend your program in #6 above to also calculate and print out the number of boxes of pizza if each box contains 8 slices.