**Presentation Notes:**

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

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

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

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 | True |
| 5thRow | False |
| else | false |
| break | false |
| Row\_5 | false |

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

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

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

A program with a syntax error cannot be used. The program with a runtime error can be used but it dumps under certain conditions

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.

CostOfPizza6\*2

1. 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.

APizza=3

Slice of Pizza=pizza+10\*4

1. 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.

numberOfSlices = int(input("Enter a numberOfSlices:"))

costOfPizza = 2 \* numberOfSlices

print("The cost is:",costOfPizza)

1. Extend your program in #6 above to also calculate and print out the number of boxes of pizza if each box contains 8 slices.

numberOfSlices = int(input("Enter a numberOfSlices:"))

costOfPizza = 2 \* numberOfSlices

print("The cost is:",costOfPizza)

print("The number of boxes is:",numberOfSlices/8)