**Presentation Notes:**

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

Typos and missing symbols cause syntax errors. The effects of this are syntax errors and red lines.

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

It gives a runtime error on the other side with red lines. They state that the word “myAnswer” is not defined.

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

The command which you write may not be defined and therefore, the effect of this is a runtime error error.

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

numberOfStudents=24

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

examMarks

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

EXAMMARK

1. Write a mathematical expression that assigns a value of 62 to the variable myAnswer.
   1. myAnswer = 2+10\*6

1. Write a mathematical expression that uses the variable aNumber and assigns a value of 77 to the variable myAnswer.
   1. aNumber =7
   2. myAnswer =aNumber+10\*7
2. Change the program on the last slide of the presentation to calculate and print out the cube (power 3) of an input number.

value = int(input("Enter a number:"))

value3 = value \*\* 3

print("The square of %d is %d" % (value,value3))

**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 | true |
| break | true |
| Row\_5 | true |

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 | False |
| Row5 | False |

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.