**Presentation Notes:**

1. What are the two main parts of a computer architecture?
   1. CPU
   2. RAM memory
2. Google “basic Python commands” and list four commands.
   1. Print
   2. input
   3. return
   4. with
3. Identify the two *syntax errors* in the following command: **Print("This command prints messages)**
   1. Capital P , change it to a lower case p
   2. Make sure you have quotation marks
4. Summarize the cause and effect of a *syntax error*.

-could be caused by a typo, missing quotations, brackets

- effect is you get red signals

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

You get an error

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

-have you typed things correctly

-using a variable before it’s defined

-your program won’t run, it will display red

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

Classsize=24

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

examMark

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 = 43

1. Write a mathematical expression that uses the variable aNumber and assigns a value of 77 to the variable myAnswer.
   1. aNumber =3
   2. myAnswer = 3+10\*4
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 | True |
| 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 | True |
| studentNumber | True |
| row | True |
| row5 | False |
| Row5 | True |

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

A syntax error is caused by a typo, missing quotations, or brackets. The effect is that you get red signals that tell you, there’s an error. A run time error is when you haven’t typed something correctly and used a variable which is undefined, the effect would be you red signal errors. The difference between these two errors is syntax wants your punctuation to make sense. The run time error is that you have to define your variable, the mathematical equation

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.

1.myAnswer=6\*2

2.Print(myAnswer)=12

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.

myAnswer=10\*2

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.

1.myAnswer=10\*2

2.Print(myAnswer)=20

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

1.myAnswer=48/8

2.print(myAnswer)=6