**Presentation Notes:**

1. What are the two main parts of a computer architecture?
   1. Cpu chip
   2. RAM
2. Google “basic Python commands” and list four commands.
   1. Print- the print command prints messages and info
   2. If – if statement is indicated by indentation
   3. return
   4. while
3. Identify the two *syntax errors* in the following command: **Print("This command prints messages)**
   1. the word print has capital “p”
   2. there is a missing quotation mark
4. Summarize the cause and effect of a *syntax error*.

Incorrectly typed text

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

When you run it the program will tell you the name is not defined.

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

print("The answer is:",myAnswer)

NameError: name 'myAnswer' is not defined

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.

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

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1. Write a mathematical expression that assigns a value of 62 to the variable myAnswer.
   1. myAnswer = 8\*8-12

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 = aNumber + 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 | False |
| break | False |
| 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 | true |
| row5 | True |
| Row5 |  |

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

Run time error has something to do with the variable

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. pizzaSlice = 6
2. costperSlice = 2
3. cost = pizzaSlice \* costperSlice
4. 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.
5. pizzaSlice = 8
6. costPerSlice = 2
7. cost = pizzaSlice \* costPerSlice
8. print("we calculate the price by multiplying the number of slices by 2")
9. print("so, your total is :" ,cost)
10. box = pizzaSlice/8
11. Extend your program in #6 above to also calculate and print out the number of boxes of pizza if each box contains 8 slices.
12. pizzaSlice = 8
13. costPerSlice = 2
14. cost = pizzaSlice \* costPerSlice
15. print("we calculate the price by multiplying the number of slices by 2")
16. print("so, your total is :" ,cost)
17. box = pizzaSlice/8
18. print("the amount of boxes you will revieve are" ,box)