**Presentation Notes:**

1. What are the two main parts of a computer architecture?
   1. To store some stuff for use in the future
   2. To read some data that was previously stored
2. Google “basic Python commands” and list four commands.
   1. print
   2. Take selfie
   3. Set alarm
   4. Remind me
3. Identify the two *syntax errors* in the following command: **Print("This command prints messages)**
   1. These *Syntax Errors* prevent a program from running
   2. Most *Syntax Errors* are highlighted in the program editor window
4. Summarize the cause and effect of a *syntax error*.

The syntax error could be caused by a typo or misspelled command.

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

If u use a variable before its defined because u get an air code

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

The cause of a run time error is using a variable before being defined and effect is that your program won’t run.

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

**value = int(input("Enter a class size:"))**

**value24 = value \*\* 24**

**print("The square of %d is %d" % (value,value2))**

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

You could have an exam Mark ICI

You can make the e short case and the m upper case.

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

**aNumber = 3**

**student answer = aNumber + 10 \* 4**

**print("The answer is:",student answer)**

1. Write a mathematical expression that assigns a value of 62 to the variable myAnswer.
   1. myAnswer =

**myAnswer = 1 + 1 \* 31**

**print("The answer is:",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 =

**aNumber = 7**

**myAnswer = aNumber + 11 \* 7**

**print("The answer is:",myAnswer)**

1. 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 | False |
| 5thRow | False |
| else | true |
| break | True |
| 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 | True |
| studentNumber | False |
| row | False |
| row5 | False |
| Row5 | False |

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

* The difference is that the run time error and syntax error is that the runtime error cannot be executed and the syntax error would be detected

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.
2. **value = int(input("six slices:"))**
3. **value2 = value \*\* 2**
4. **print("The square of %d is %d" % (value,value2))**
5. 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.

**value = int(input("slices of pizza:"))**

**value2 = value \*\* 2**

**print("The square of %d is %d" % (value,value2))**

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