**Presentation Notes:**

1. What are the two main parts of a computer architecture?
   1. RAM Memory
   2. CPU Processor
2. Google “basic Python commands” and list four commands.
   1. Print command
   2. Input command
   3. Output command
   4. While command
3. Identify the two *syntax errors* in the following command: **Print("This command prints messages)**
   1. Space between “Print” and (
   2. There is no end bracket )
   3. Quotation at beginning and end
4. Summarize the cause and effect of a *syntax error*.
5. These***Syntax Errors*** prevent a program from running
6. Most ***Syntax Errors*** are highlighted in the program editor window
7. Explain what happens if you use a variable before it is defined.
8. *It doesn’t know what your defining to print* so it doesn’t output

1. Summarize the cause and effect of a *run-time* error.
2. The program will not run if the run time error
3. The program doesn’t understand what the variable means
4. Write a Python statement to assign the value of 24 to the variable classSize.

examMarkofStudentsICS

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

·         examMark

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

·         exammark

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

a.   myAnswer = 8 \* 8 - 2

11.   Write a mathematical expression that uses the variable aNumber and assigns a value of 77 to the variable myAnswer.

a.   aNumber = 7

b.   myAnswer = aNumber + 10 \* 7

**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 |

**2.**       **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 | False |

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

·         Syntax Errors are errors created because the statement doesn’t follow the structure and rules of a language and run-time errors is an error created when you don’t define a variable before using it.

**4.**       **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.**

·         myAnswer = 6 \* 2

print("The answer is:",myAnswer)

**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**

Slice = (number slices you want)

Print (slice \* 2)

pizzaSlices = int (input ("How many pizza slices would you like? "))

totalCost = pizzaSlices \*2

print ("That will cost",totalCost)

**6.**       **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.**

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

**value2 = value \* 2**

**print("The total cost %d slices is %d dollars"  % (value,value2))**

pizzaSlices = int (input ("How many pizza slices would you like? "))

totalCost = pizzaSlices \*2

print ("That will cost",totalCost)

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

boxesOfPizza = int (input ("How many boxes of pizza would you like? "))

pizzaSlices = 2\*8

totalCost = pizzaSlices \* boxesOfPizza

print ("That will cost",totalCost)