**The Print Statement – FUNCTION (SOMETHING USED IN PYTHON TO REPEAT CODE)**

Where do functions come from?

|  |
| --- |
| The most important function in PYTHON – python function as a built in part of the language   * **Functions don’t always need arguments** to display output. * Some functions **require arguments**, others have **default values**, and some **don’t need any**. |
| Functions are imported modules (thinking of them as a plugin for PYTHON) |
| You can write your own custom functions |

**print(“Hello, World!”)**

|  |
| --- |
| What is the function name?  The word print is the actual function that will allow you to print something through to the console |
| What is the Argument?  Is what goes inside of the parenthesis within the function  KEY DIFFERENCE BETWEEN A STRING & AN ARGUMENT:   * Argument: a value passed to a function (can be any data type * String: a type of data (text enclosed in quotes ie. “Hello”)   NOTE: A STRING CAN BE AN ARGUMENT, BUT AN ARGUMENT IS NOT ALWAYS A STRING |

**Properties of Print Arguments:**

|  |
| --- |
| Print arguments can have any number of arguments |
| separated by commas, can accept strings (anything between “ “) |
| can accept numbers |

**Escape Characters**

|  |  |
| --- | --- |
| **Escape Code** | **Description** |
| **\n** | **Inserts a new line in the text at this point** |
| **\t** | **Inserts a tab in the text at this point** |
| **\'** | **Adds a single quote character in the string** |
| **\"** | **Adds a double quote character in the string** |
| **\\** | **Adds a backslash character in the string** |

**Multiple Arguments**

|  |
| --- |
| **Print (“Hello, World!”, “How Are You?”)**  **Print ()**  **Print(“hello, “\n is anybody out there?”)** |
| **Print (“We’re not going to take it!”, end= “ “)**  **Print(“No, we’re not going to take it!”)**  **Print(“-Twisted Sister”)** |
| * **You can pass in multiple arguments** * **Separate them by commas** * **They will print with a space between them** * **The approach is positional, they are passed in order** |
|  |

**Keyword Arguments (what do they do?)**

**sep**

|  |
| --- |
| **If you have multiple things inside the print function sep will automatically put a dash in between each one of those words; sep= “-“ inserts the symbol in between the strings** |

**end**

|  |
| --- |
| **Strings along a character at the end of each print statement; End= “ “ overrides the default, \n – newline sequence** |