**String Manipulation**

1. **What is a string?** 
   1. Sequence of characters
   2. “String literal” is a direct representation of a string in particular
   3. *Programming language* 
      1. Python: “hello, world!”
      2. JavaScript “hello, world”
2. **A string variable is a variable whose underlying data type is a string** 
   1. Python: greeting = “hello”
3. **Index** 
   1. Greeting = “hello”
   2. Indices are zero based
   3. H = 0 , e = 1 , l =2
   4. Print (greeting [1]) Output “e”
4. **What is string manipulation?** 
   1. *Programmer asked to process a string and change its data*
   2. *Examples* 
      1. Capitalize, spell check, find characteristics within a string,
   3. The syntax of how strings are represented varies from language to language but generally is marked by a single or double quotation marks