

Assignment No. 1]

Basic Python

Q1) In the below elements which of them are values or an expression? ex. values can be integer or string and expressions will be mathematical operators.

Ans
 4 operators: \ast , $-$, 1 , $+$
 3 expressions: 'hello', -87.8 , 6

Q2) What is the difference between String and Variable.

Ans
 A variable is something that can hold a value.
 A String is one of many types of values.
 String represents text, integers represents whole no. etc.

A variable is a place where you can store any of these types of values, but it is not in itself a value.

Q3) Describe three types of data types?

Ans
 Integers: (int) we can use int data type to represent whole numbers.

float: we can use float data type to represent decimal values.

String: we can use string data type using single quote or double quotes or even triple quotes.

Q4) What is an expression made of? What do all expressions do?

Ans An expression is made up of combined values, variable, operators. Expression need to be evaluated, ~~python~~

ex: If we ask python to point an expression, the interpreter evaluates the expression and displays the result.

Q5 This assignment Statement, like `spam = 10`, what is the difference between an expression and a Statement?

Ans An expression is a combination of values, when we type an expression at the prompt, the interpreter evaluates it which means that it finds the value of the expression.

A Statement is a unit of code that has an effect, like creating a variable or displaying a variable. When we type a Statement, the interpreter executes it which means that it does whatever the Statement says. as Statement do not have values.

Q6

Ans The variable `bacon` is set to 22, the expression `bacon + 1` does not reassign the value in `bacon`.

Q7)

Ans

~~spamspamspam~~ ~~##~~ String Concatenation
~~spamspamspam~~ ~~##~~ String multiplication

Q8)

Ans

As per python, variables cannot begin with a number as variable must start with a letter or the underscore character, variable can only contain alpha numeric characters and underscores (A-2, 0.9, 4_).

Q9)

Ans

int()
 float()
 str()

Q10)

Ans

here gg is not defined as a string
 It should be
 'I have eaten' + str(gg) + 'burritos'.