1. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators. \*,'hello', -87.8,-,/,+,6



1

Operators: \*,-,/,+

2

Expressions: 'hello', 87.8, 6

1. What is the difference between string and variable?

A Variable is a store of information. A String is a type of information you would store in a Variable. A String is usually words, enclosed with ""

Eg String x ="Welcome to python" X is the Variable, and we declared it as a String.

1. Describe three different data types.



1

Integers

2

Float

3

Complex number

1. What is an expression made up of? What do all expressions do?



1

An expression is a combination of values, variables, operators, and calls to functions. Expressions need to be evaluated. If we ask Python to print an expression, the interpreter evaluates the expression and displays the result.

1. This assignment statements, like spam = 10. What is the difference between an expression and a statement?



1

An expression is a combination of values, variables, and operators.When we type an expression at the prompt, the interpreter evaluates it, which means that it finds the value of the expression.

1. After running the following code, what does the variable bacon contain?

In [3]:



1

bacon **=** 22

2

bacon **+** 1

3

print(bacon)

22

1. What should the values of the following two terms be? 'spam' + 'spamspam', 'spam' \* 3

In [12]:



1

print('spam'**+**'spamspam')

2

print('spam'**\***3)

spamspamspam

spamspamspam

1. Why is eggs a valid variable name while 100 is invalid?

In [15]:



1

egg**=**'Ineuron' *# Valid variable Initilization*

2

100**=**'hello' *# Invalid Variable Initilization*

3

print(egg)

4

print(100)

**Input In [15]**

**100='hello' # Invalid Variable Initilization**

**^**

**SyntaxError:** cannot assign to literal

1. What three functions can be used to get the integer, floating-point number, or string version of a value?

In [22]:



1

print(int(10.0))

2

print(float(10))

3

print(str(10.0))

10

10.0

10.0

1. Why does this expression cause an error? How can you fix it? 'I have eaten ' + 99 + ' burritos.'

In [21]:



1

'I have eaten ' **+** '99' **+** ' burritos'

Out[21]:

'I have eaten 99 burritos'