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.**

\* ***is an expression***

'hello' ***is a value***

-87.8 ***is a value***

- ***is an expression***

/ ***is an expression***

***+ is an expression***

6 ***is a value***

1. **What is the difference between string and variable?**

**Ans:**

A string is a collection of English alphabets and is always written within single or double quotes.

A variable is a name that can store some data or values.

1. **Describe three different data types.**

**Ans:**

The three different types of data are:

1. Integers: They contain both positive and negative whole numbers.
2. Floats:  These are decimal numbers.
3. Strings: These are sequence of alphabet characters.
4. **What is an expression made up of? What do all expressions do?**

**Ans:**

An expression in Python is a combination of operators and operands that can be executed to obtain the desired output. Examples of different expressions are: Arithmetic expression, Relational expressions, Logical expressions etc.

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

Ans:

In Python, a statement is not evaluated to obtain the result. Whereas, an expression is always evaluated to get the desired output.

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

**bacon = 22**

**bacon + 1**

***Ans:***

bacon contains the integer value 22.

1. **What should the values of the following two terms be?**

**'spam' + 'spamspam'**

**'spam' \* 3**

***Ans:***

Output of ‘spam’ + ’spsmspsm’ is spamspamspam.

Output of ‘spam’ \* 3 is spamspamspam.

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

**Ans:**

Because variable names should not start with digits (numeric values). It should always start with alphabets or underscore.

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

**Ans:**

For integer🡪 int()

For floating-point number🡪 float()

For string🡪 str()

1. **Why does this expression cause an error? How can you fix it?**

'I have eaten ' + 99 + ' burritos.'

**Ans:**

The above expression gives error as string and integer cannot be added (summed up) together.

The correct expression is:

'I have eaten ' ' 99 ' ' burritos.'

Or

'I have eaten 99 burritos.'