

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.

* (expression/arithmetic operator)

'hello' (value)

-87.8 (value)

- (expression/arithmetic operator)

/ (expression/arithmetic operator)

+ (expression/arithmetic operator)

6 (value)

2. What is the difference between string and variable?

A) String is a value containing characters or text. While, variable is a pointer to an address location in the memory that holds any value like int, string, boolean ,float, etc.

3. Describe three different data types.

A) Int, string, boolean ,float

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

A) Expression is made up of values and operators. For example, arithmetic expression can be $5 + 5$.

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

A) Expression returns a value, while statement may or may not.

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

```
bacon = 22
```

```
bacon + 1
```

A) 22

7. What should the values of the following two terms be?

'spam' + 'spamspam'

'spam' * 3

A) 'spamspamspam'

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

A) Variables in Python shouldn't start with number.

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

A) int(), float(), str()

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

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

A) string and integers cannot be concatenated.