

1. In the below elements which of them are values or an expression? e.g.:- values can be integer or string and expressions will be mathematical operators.

\* - Expression

'Hello' - Value

-87.8 - Value

- - Expression

/ - Expression

+ - Expression

6 - Value

2. What is the difference between string and variable?

A Variable is a store of information, and a String is a type of information you would store in a Variable.

3. Describe three different data types.

1) List 2) Dictionary 3) Set 4) Tuple 5) String 6) integer

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

An expression is a combination of operators and operands that is interpreted to produce some other value. In any programming language, an expression is evaluated as per the precedence of its operators.

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

Expression is made up of values, containers, and mathematical operators (operands) and the statement is just like a command that a python interpreter executes like print.

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

```
bacon = 22
```

```
bacon + 1
```

```
bacon=23
```

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

```
'spam' + 'spamspam'
```

'spam' \* 3

'spamspamspace'

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

Because variable names cannot begin with a number.

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

The int() , float() , and str( ) functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

We can only concatenate str (not "int") to str.

Write this expression as below.

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