

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

2. What is the difference between string and variable?

A string is a type of variable where as variable is used to store the different data types.

3. Describe three different data types.

int , string , float, Boolean

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

Expression represents something or a values that can be stored in a variable . it gives some values which we can store in a variable for ex  $a = 2(3+4)$  so here  $2(3+4)$  is an expression

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

Expression returns a value where as statement does not return a value.

Expression can print as result and statement cant print a result

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' = 'spamspamspam'`

`'spam' * 3 = 'spamspamspam'`

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

As 100 is an integer data type.

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

int, str, float and to check we can use type().

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

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

As 99 is a int type so we can convert it to string type then it will be fine.