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

'hello' -value

-87.8 -value

- -expression

/ -expression

* -expression

6 -value

2. What is the difference between string and variable?

Variables are symbols that you can use to store data in a program. You can think of them as an empty box that you fill with some data or value. Strings are data, so we can use them to fill up a variable

3. Describe three different data types.

The 3 different data types are:

1.integer

2.string

3.boolean

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

A expression consists of mathematical operators like +, -, \* etc. An expression is used for mathematical operation like a+b, a-b etc.

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

In programming language terminology, an “expression” is a combination of values and functions that are combined and interpreted by the compiler to create a new value, as opposed to a “statement” which is just a standalone unit of execution and doesn't return anything

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

bacon = 22

bacon + 1

The variable beacon will contain the value beacon=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?

Because Variable name cannot begin with a number 100. Eggs can be a valid variable name

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

Int (), float(),str()

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

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

‘I have eaten’+str(99)+ ‘burritos’