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?

* A string is a text representing value while a variable is a name that can be refer to any value quotes.

3. Describe three different data types.

* **Numbers:** The Number data type is used to stores numeric values.
* **List:** List data type is used to store the collection of different data types of elements, and it is mutable.
* **String:** The string data type is used to stores the sequence of characters.

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

* An expression is a construct made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates to a single value.

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

* An expression is a statement that returns a value.
* A statement performs some action such as printing values, looping such as if statement.

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

bacon = 22

bacon + 1

* Variable bacon contains 22.

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

'spam' + 'spamspam'

'spam' \* 3

* Values for both the terms will be 'spamspamspam'

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

* The number 100 is an integer, not a variable name.

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

* int() function can be used to get an integer
* float() can be used to get floating oint number

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

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

* This expression will show error as string and integer cannot concatenate.
* Solution is we can use 99 as a string: 'I have eaten ' + ‘99’ + ' burritos.'