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

**Values: ‘hello’, -87.8, 6; Expressions: \*, -, /, +**

2. What is the difference between string and variable?

**String is a value type, variable is a memory in a disk where any value can be stored**

3. Describe three different data types.

**String, number, boolean**

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

**Expression made up of variables (operands), operations and function calls. Expressions get evaluated to a one value.**

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

**Statements represent an action or a command like print statement, assignment statements, break statement, if , if..else, while statement. They don’t return anything. Expression is an instruction or a unit of code that contains values, operations, function calls and resolves to a single value.**

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

bacon = 22

bacon + 1

**bacon contains 23**

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

'spam' + 'spamspam'

'spam' \* 3

**‘spamspamspam’**

**‘spamspamspam’**

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

**Variable names can’t start with the number.**

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.'

**Python doesn’t convert value types by default, it has to be done manually:**

**‘I have eaten ’ + str(99) + ‘ burritos.’**

**Or put number 99 in quotes:**

**‘I have eaten ’ + ‘99’ + ‘ burritos.’**