**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?**

Variable is where the data can be stored however the string itself is a data which is stored in a variable.

**3. Describe three different data types.**

Int= Takes the whole number as values.

String= Takes the alphabets as a value.

Floats= Takes decimal numbers as value.

**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. The expression produces some value or result after being interpreted by the interpreter.

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

A statement is not evaluated for some results. An expression is evaluated for some results. The execution of a statement changes the state of the variable. The expression evaluation does not result in any state change.

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

**bacon = 22**

**bacon + 1**

Variable bacon contains value 22.

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?**

The variable name can contain numbers however the variable name must start with alphabet only. Hence eggs is a valid variable while 100 is invalid.

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

Int () is used to get integer value, float () is used to get floating-point value and str () is used to get string value.

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

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

Integer value cannot be concatenated with strings. Only strings can be concatenated.

Convert integer into string by keeping 99 in ‘’

'I have eaten ' + ‘99’ + ' burritos.'