**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**

Ans. Values are (‘hello’, -87.8, 6)

Expressions are (\*, -, /, +, 6)

**2. What is the difference between string and variable?**

Ans. A variable is use for storing the data and string is the type of information that is stored in a variable.

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

Ans.

Integers

Strings

Bolean

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

Ans. AN expression is made up of values and operators. All expressions resolve itself to a single value.

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

**Ans.**

An expression resolves itself to a single value while statement doesn’t.

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

**bacon = 22**

**bacon + 1**

Ans. 20

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

**‘spam’ + ‘spamspam’**

**‘spam’ \* 3**

Ans: Both expressions will provide the result as

‘spamspamspam’

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

Ans: A variable name can start with a letter so that’s why eggs are a valid variable while a variable name according to variable naming conventions doesn’t start with a number so that’s why 100 is invalid.

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

Ans.

* int()
* float()
* str()

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

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

Ans. The reasons is only string can be concatenated with other strings by using the “+” operator and as 99 is an integer that’s why this expression is going to give an error.