**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**: **All the above**

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

**Ans**: **String is a value that are denoted with ‘ ‘ expression, variable can be used to assign that string it is used to store the data**

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

**Ans: Integer, float, string and Boolean are different data types in python**

* **Integer: It is the numeric value**
* **Float: It is the numeric value with decimal points, it is used when high precision is required**
* **String: String is a value that are denoted with ‘ ‘ expression**

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

**Ans:**  **Expression are mathematical operators made of \*,/,+,- that are used to perform arithmetic operations such as multiplication, division, subtraction and addition**

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

**Ans: 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**

**Ans: 21**

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

**'spam' + 'spamspam'**

**'spam' \* 3**

**Ans: 1. ‘spamspamspam’, 2. ‘spamspamspam’**

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

**Ans: Variable name should not be numeric whereas eggs is an valid as it is not a numeric value**

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

**Ans: int () , float() , and str( ) can be used to get the integer, floating-point number, or string version of a value**

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

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

**Ans: Strings and Integers are different types, and two different data types cannot be concatenate. In order to fix this, convert the 99 into string by changing the format to ‘99’, this resolves the error**