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?

**Ans: String is a collection of characters whereas variables are used to hold any sort of value including characters and numbers.**

3. Describe three different data types.

**Ans) List, Tuple and Set**

**List is denoted by []. This is mutable**

**Tuple is denoted by (). This is immutable**

**Set is denoted by {}. It is a unique collection of elements.**

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

**Ans: expressions are made of operators and operands and it evaluates down to single value.**

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

**Ans: expression is combination of operands and operators which evaluates down to single value like 1+5 whereas statements represent an action or command like spam=10**

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

bacon = 22

bacon + 1

**Ans: 23**

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?

**Ans: variable name could be a name but can’t be a value**

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 error is caused due to data type mismatch in concatenation.**

**The right way is perform concatenation is below:**

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