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

**Answer.**

**Values are : -87.8, 6 and ‘hello’**

**Operators are : \*, -, /, and +**

2. What is the difference between string and variable?

**Answer :**

**string : ‘ineuron’**

**variable : ineuron**

**in string it is start and end with quotes.**

3. Describe three different data types.

**Answer :**

**String: it is represent by class str ,start and end with quotes, eg ‘elesh’**

**Integer: it is represent by class int , any number without float, eg – 44**

**Floating numbers: : it is represent by class float , number with floating value : 44.99**

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

**Answer :**

**An expression is a combination of values and operators.**

**All expressions evaluate (that is, reduce) to a single value.**

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

**Answer :**

**An expression evaluates to a single value. A statement does not.**

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

bacon = 22

bacon + 1

**Answer :**

**23**

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

'spam' + 'spamspam'

'spam' \* 3

**Answer :**

**‘spamspamspam’**

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

**Answer :**

**Variable names cannot begin with a number.**

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

**Answer :**

**Int()**

**Str()**

**flaot()**

**functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.**

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

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

**Answer :**

**The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator.**

**The correct way is ‘I have eaten ' + str(99) + ' burritos.'**