**Q1.**  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

**A1 -> Expressions** : 1) \*

2) –

3) /

4) +

**Values:** 1) ‘hello’

2) -87.8

3) 6

**Q2.** What is the difference between string and variable?

**A2 ->** String is data type where as variable is used to store values/data.

A Variable can be of String type, which will store String values in it.

**Q3.** Describe three different data types

**A3 ->** 1) Integer (int) -> stores integer values like **678**

2) String (str) -> stores String values like “**iNneuron**”

3) Float (float) -> stores floating point numbers like **78.90**

**Q4.** What is an expression made up of? What do all expressions do?

**A4 ->**  An expression is a combination of operators, variables, and values(literals). All expressions evaluates and produce value.

For eg. 2+1 will evaluate to 3

**Q5.**  This assignment statements, like spam = 10. What is the difference between an expression and a statement?

**A5 ->** An expression will return result, whereas statement won’t.

**Q6.** After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

**A6. ->** 22

**Q7**. What should the values of the following two terms be?

'spam' + 'spamspam'

'spam' \* 3

**A7 ->** ‘spamspamspam’

‘spamspamspam’

**Q8.** Why is eggs a valid variable name while 100 is invalid?

**A8 ->** eggs is starting from letter and is following all rules of variable naming convention,

Whereas 100 starts from 1 which is a numeric number, since variables can’t be started with numeric number 100 is an invalid variable name.

**Q9.** What three functions can be used to get the integer, floating-point number, or string version of a value?

**A9 ->** 1) int()

2) float()

3) str()

**Q10.** Why does this expression cause an error? How can you fix it?

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

**A10 ->** The above expression will give error as 99 is not string and when we try to concatenate string with other data types like float or integer, it will give error,

We can fix it by typecasting and converting 99 into string

**'I have eaten ' + str(99) + ' burritos.'**