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 : 'hello', -87.8, 6 are values, rest are expressions**

2. What is the difference between string and variable?

**Ans : string is type of a value, and variable is holder which holds multiple types of values.**

3. Describe three different data types.

**Ans : string, Integer, float**

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

**Ans : expressions could the single values, operators, variables, calls to functions or combinations of these. Eg: var1 + 10 \* 10. We use expressions to get the operations to get the desired value or result**

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

**Ans :** **Here spam = 10 is a statement, statement basically refers to some command like print(“Hello”) or an assignment statement whereas expressions could the single values, operators, variables, calls to functions or combinations of these. Eg: var1 + 10 \* 10. We use expressions to get the operations to get the desired value or result**

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

bacon = 22

bacon + 1

**Ans : bacon will have 22 as value.**

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

'spam' + 'spamspam'

'spam' \* 3

**Ans : both the operations will give same value “spamspamspam”**

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

**Ans : we cannot have numeric value as variable names as per Python Variable naming rules.**

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 : We cannot add integer and string values, we can fix it by converting 99 into string like, 'I have eaten ' + ‘99’ + ' burritos.'**