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 : -87.8,’hello’,’6’**

**Ecpressions : \*,-,/,+**

2. What is the difference between string and variable?

**Answer:**

**String: String is a sequence of characters that placed in between ‘’ /””.**

**Variable: Variable is the name that refer to a data type value stored in the computer memory.**

3. Describe three different data types.

**Answer:**

**Integer: Integer represents the whole numbers (Positive/Negative), without any decimal points.**

**String: String is a sequence of characters that placed in between ‘’ /””.**

**List: list represents an ordered collection of items and list is mutable.**

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

**Answer:**

**An expression is a combination of values, variables, operators and function calls that evaluates to a single value. Expressions are the basic building blocks of python programs and are used to perform computations, manipulate data and makes decisions.**

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

**Answer:**

**In the above statement entire spam = 10 is a statement and in that we used ‘=’ operator to assign a values variable, this is called as assignment operator expression.**

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

bacon = 22

bacon + 1

**Answer:**

**22**

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

'spam' + 'spamspam'

'spam' \* 3

**Answer:**

1. **‘spamspamspam’**
2. **‘spamspamspam’**

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

**Answer:**

**eggs is the proper string which we can use to declare a variable and in python we are not able declare variable by using integer values at the staring.**

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

**Answer:**

1. **Int()**
2. **Float()**
3. **Str()**

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

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

**Answer:**

**Bcz in python we are not able to do concatenation between string and integer values, if we want to do concatenation integer and string we have to convert integer to string.**

'I have eaten ' + ’99’ + ' burritos.'