**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': Values

-87.8: Values

-: Expression

/: Expression

+: Expression

6: Values

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

Ans: Variable is nothing but global or local instances in the memory (RAM), so that you can store something into its. You can store the data like string, integer, float, class, etc.

String is a literal text string like “Gunjan Shingala”

**3. Describe three different data types.**

Ans: There are four types of datatypes available in python as under:

1. Integer (denotes as int): All the positives and negatives integer values like 1,2,3, -6, -8, etc
2. Floating (denotes as float): All the positives and negatives float numbers like 1.2,2.4,3.15, -9.6
3. String (denotes as str): String can be written in “xyz”
4. Booleans: True or False

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

Ans: An expression is a combination of values, variables, operators, and calls to functions. Expressions need to be evaluated. If you ask Python to print an expression, the interpreter evaluates the expression and displays the result.

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

Ans: An expression evaluates to a value. A statement does something. Statements represent an action or command e.g print statements, assignment statements. Expression is a combination of variables, operations and values that yields a result value

**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'**

**'spam' \* 3**

Ans: Same for both terms: 'spamspamspam'

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

Ans: Variable should not start with digits. It will always start with letter (small or upper case or \_)

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

Ans: print(int(x)) for integer, print(float(x)) for floating and print(str(x)) for string values

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

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

Ans: “I have eaten ' + 99 + ' burritos.”