**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.**

Ans: \* Mathematical operator

'hello' String

-87.8 integer

- Mathematical operator

/ Mathematical operator

* Mathematical operator

6 Integer

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

A string is a literal text string, i.e. 'Hello'. A variable is something that stores data (per se) - it can store a string, int, float, class, etc.

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

* Boolean Type: bool.
* Set
* Mapping Type: dict.
* Sequence Types: range, tuple, list.
* Numeric Types: complex, float, int.

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

**Ans**:  Expressions are combinations of values and operators and always evaluate down to a single value. A statement is every other instruction. Some statements contain expressions. An expression is an instruction that combines values and operators and always evaluates down to a single value.

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

**Ans:** A **statement** is an instruction that the Python interpreter can execute. We have only seen the assignment statement so far. Some other kinds of statements that we’ll see shortly are while statements, for statements, if statements, and import statements. (There are other kinds too!)

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.

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: 'spamspamspam'

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

Ans: Variable name can’t be number

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

Ans: int() , Type float(x),str()

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

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

Ans: can only concatenate str (not "int") to str, We cant concatenate integer with string