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 –**

* **,-,/,+ -> are mathematical operators**
* **'hello' ->String**
* **-87.8 -> floating point number**
* **6 -> integer**

2. What is the difference between string and variable?

**String -> it’s a data type in Python**

**Variable -> are used to store data**

3. Describe three different data types.

**Numeric types- int, float, complex**

**Sequence type-> list tuple etc**

**Mappint Type-> diict**

**Boolean type-> Boolean**

**Set type -> Set**

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

**Expression is made up of operands and operator**

**Expression are to used to evaluate or calculate base on operator and operands**

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

**Expression is combination of variables, operators and operands**

**Expression always returns oor produces a value**

**e.g x= 2+ 9**

**Statement is an instruction for python compiler or interpreter**

**Statement may or may not return or produce a value**

**X=5**

**Print(x)**

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

bacon = 22

bacon + 1

**Ans. 22**

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

'spam' + 'spamspam'

'spam' \* 3

Ans. 'spam' + 'spamspam' -> spamspamspam

'spam' \* 3 -> Error

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

In python Variable name should contain an alphabet or symbol

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

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

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

Ans . Causes error as 99 is int we can fix it by converting 99 to str (str(99) or ‘99’)