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.

\* **- Mathematical Operator**

'hello' **- Values**

-87.8 **- Values**

- **- Mathematical Operator**

/ **- Mathematical Operator**

* **- Mathematical Operator**

6 **- Values**

2. What is the difference between string and variable?

**Ans. Variable is the data item which reserves memory location to store the values.**

**String – String is the type of data item which holds the group of character or character values in the memory.**

3. Describe three different data types.

**Ans. 1 – int – To store integer values**

**Ex: a = 10 -> a is an integer**

**2. str – To store character values**

**Ex: a = ‘10’ -> a is a string datatype**

**3. float – to store floating point numbers.**

**Ex: a = 10.0 -> a is a floating point number**

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

**An expression is made up of variables, constants and operators that is interpreted to produce some other value.**

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

**An expression always evaluates to a value and a statement does something, like creating a variable or displaying a value, it only does whatever the statement says.**

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

bacon = 22

bacon + 1

**O/p 🡺 bacon = 22**

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

'spam' + 'spamspam' **🡺 'spamspamspam'**

'spam' \* 3 🡺 **'spamspamspam'**

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

**Variable names can contain letters and numbers, but they can’t start with numbers.**

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

**Int(), float(), str()**

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

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

**It can concatenate Str to Str only, it can’t concatenate Str to Integer**

**We can correct by keeping Integer value in quotes 🡺'I have eaten ' + ‘99’ + ' burritos.'**