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?

**A variable could be of any data types int , float , string , tuples, list, function, dictionary and string also can be declared as a variable.**

3. Describe three different data types.

**Integer: A whole number is integer , without decimal places / fractions like 5 , 456, 79523,range for integer in python is -2147483648 to 2147483647**

**Float: any real values or values with fractions is called Float.**

**String: all Alphabets and numeric and special characters wrapped in a single or double quote is string. Assigned index position of a declared string cannot be replaceable makes string as immutable sequence.**

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

**Expression is made up of special characters as operators and sometimes as generators. Depending upon the operators and operands expression is interpreted to produce some other value.**

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

**A statement is nothing but a command like spam = 10 that means spam variable now been assigned with 10 whereas an expression is made up of operators and operands and finally it concludes with some value.**

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

bacon = 22

bacon + 1

**23**

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?

**100 is a Integer(built-in datatype) and cannot be assigned for any variable name while eggs is not declared as any of built-in data type so can be declared as any variable.**

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

**Any value can be converted in integer , float , string with int,float and str respectively.**

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

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

**‘I have eaten ‘ is a string , 99 is a integer , ‘burritos’ is a string again and concatenation can happen only for the same data types .**