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' **- Value**

-87.8 **- Value**

- **- Expression**

/ **- Expression**

* **- Expression**

6 - Value

2. What is the difference between string and variable?

**Variable is symbol that can be used to store any types of data like int, float, string , bool etc while string is itself a data and we can assign them to any variable also**.

3. Describe three different data types.

**int : int datatype in python can store all integer values. I can store positive as well as negative with no decimal point. eg -1,-50,50,100,10000**

**float : float dataype in python used to store floating point values like 10.5 , 5.55 etc. In float datatype data is divided in to integer and fraction part. eg 10.4 , 55.26**

**String : String is array of bytes representing unicode character. To represent string single quote , double quote can be used.eg: "hello",'bye' etc.**

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

**In python any expression is made up of operators and operands. operators are operation perform on operands. Expression will generate result as per operators and operands present in expression.**

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

**Expression will evaluate and gives results while statement will do something as per its content like print statement will print while span = 10 statement will simply assign value to variable span.**

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

bacon = 22

bacon + 1

**bacon contain 22 since answer of addition is not assigned to variable.**

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 name cannot start with digit i.e 1var not valid var1 valid.**

**In eggs variable name start with character which is valid.**

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.'

**string and int cannot add with + expression. to fix it 99 should be converted to string using str(99).**