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?

*Variable is used to store the values of data. Its like an empty box, where we can store any values. A variable can be any other data type like integer,string or float.*

*String is same like variables. A collection of character variable is known as string. String variable is of string data type*.

3. Describe three different data types.

*Numeric data type: integer,float,complex*

*String data type: str*

*Sequence data type: list,tuple,range.*

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

*Expression is the combination of operators and operands. Expression need to be evaluted. The interpreter evaluates the expression and displays the results.*

*e.g: a+5,b=b+1*

*INTERPRETER : Interpreter translates the high-level program statement into machine code.*

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

Ans:

*Statement is something which is used to create a variable and also helps to assign a values to a variable. spam=10 is a assignment statement where spam is a variable which is assigned by a value equals to 10.*

*Expression is used to produce some results after being executed.*

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?

Ans:

*'spam' + 'spamspam' --->'spamspamspam'*

*'spam' \* 3 ----> 'spamspamspam'*

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

*Ans: Because variable names cannot begin with numbers.*

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

*The int(),float() and str() functions will evaluate the integer values,floating point numbers and string versions of values which is passed to them.*

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

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

Ans: *We can concatenate only string. Not a string and an integer.*