**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.**

\* -**Expressions**

'hello'-**Values**

-87.8-**Values**

- -**Expressions**

/ -**Expressions**

* **Expressions**

6 -**Values**

**2. What is the difference between string and variable?**

The information stored in a variable is called string. A string is a sequence of one or more characters (letters, numbers, symbols). They are enclosed in single or double quotation marks.

Variable is a symbol that can be used to store information (string, integer etc). Or, It is given a name to the data.

**3. Describe three different data types.**

String- combination of letters, numbers, special characters.

Integers- Whole numbers. Eg. 2

Floating number- Numbers with decimal point. Eg. 2.2

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

Expression may contain variable, values and operators. It will display result when you type an expression in the command line. But the results from expression and print statement is different.

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

Expression gives an output. But an assignment statement does not.

Assignment statement, spam=10.... No result

Expression, input-spam

output -10

**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'- ‘**spamspamspam’

**'spam' \* 3- ‘**spamspamspam’

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

Because 100 starts with number. A variable cannot starts with numbers.

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

By converting their values.. like,

int()

float()

str()

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

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

This expression cause **type error** because 99 is an integer type. We cannot concatenate str to int. By converting 99 into a str type “99” we can fix this error.

'I have eaten ' + ‘99’ + ' burritos.' (or)

'I have eaten ' + str(99) + ' burritos.'