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.

\*

'hello'

-87.8-Expression

-

/

6 -expression

2. What is the difference between string and variable?

Answer-**Variable**-It is nameplace where we keep values.

Example-a=10

String-It is data-type which has sequence of characters.

3. Describe three different data types.

Answer

**Integer**-it is range of number without fractional or decimal part . Ex- 3, 34-22

**Float**-It is range of number which contains decimal part as well as integers. Ex -44.7 45.8

**String-**It is sequence of characters within a double or single qouets.

Ex : “aedfd” ,” 23haedf”

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

Answers- An expression is made up of terms/constants/variable and operation

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

Answer- Assignment is setting the value to a variable , whose value is defined , exact and independent.

spam = 10

Expression is combination of variable or constant. It is dependent on other variable values.

S=a+b

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

bacon = 22

bacon + 1

Answer-bacon=22

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

'spam' + 'spamspam'

'spam' \* 3

Answer’- spamspamspam’ for both

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

Answer- Variable cannot be start with number so only eggs is valid.

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

Answer-int(),float() str()

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

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

Answer- This number 99 cannot be joined with ‘+’ as it is not they are not string type.

'I have eaten ' +’ 99’ + ' burritos.'