1. What are the differences between operators and values in the following?

\*

'hello'

-87.8

-

/

+

6

Ans:- The operator is placed between two values to perform an operation

\* is used for multiplication

'hello' is string

-87.8 is floating number

- is used for subtraction

/ is used for division

+ is used for addition

6 is an interger number

2. What is the difference between string and variable?

spam

'spam'

Ans:- A String is a type of information you would store in a Variable. A String is usually words, enclosed with ' '. A Variable is a store of information or we can say that it is used for storing information.

here spam is a variable and 'spam' is a string.

3. Describe three different data forms.

Ans:- Numbers, String, List, Tuple, Set, Dictionary

4. What makes up an expression? What are the functions of all expressions?

Ans:-An expression is a combination of operators, constants and variables. An expression may consist of one or more operands, and zero or more operators to produce a value.

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?

'spam' + 'spamspam'

'spam' \* 3

Ans:-spamspamspam

8. Why is it that eggs is a true variable name but 100 is not?

Ans:-Variable name cannot begin with a number. Thats why eggs is a true variable name but 100 is not.

9. Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

Ans:-  The int(), float(), and str() functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

10. What is the error caused by this expression? What would you do about it?

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

Ans:-This will given error that can only concatenate str (not "int") to str.To overcom efrom this problem we to convert integer to string value.