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.

\* - an expression

'hello' - value

-87.8 - value

- an expression

/ an expression

* an expression

6 - value

2. What is the difference between string and variable?

Ans- A Variable is a store of information, and a String is a type of information you would store in a Variable.

example

String x="anand";

// here x is variable and type of value it stores is in string

3. Describe three different data types.

Ans-

1. Numeric Data type- integer (152), float (35.09), complex (5+4j)
2. String Data type – (This is my first day of class)
3. Boolean type(bool) – True/False
4. What is an expression made up of? What do all expressions do?

Ans -A combination of operands and operators is called an expression. The expression in Python produces some value or result after being interpreted by the Python interpreter. An expression in Python is a combination of operators and operands.

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

Ans- An expression evaluates to a single value. A statement does not.

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

bacon = 22

bacon + 1

**Output - 23**

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

'spam' + 'spamspam'

**Output - 'spamspamspam'**

'spam' \* 3

**Output - 'spamspamspam'**

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

Ans- An eggs is a valid variable name while 100 is invalid because variable name cannot begin with the number.

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

Ans – int() , float(), str()

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

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

Ans-The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos.'.