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

-

/

6

**Answer:**

**Values:** ‘hello’, -87.8, 6

**Expression:** \*, -, /, +

2. What is the difference between string and variable?

**Answer** - A Variable is a store of information, and a String is a type of information you would store in a Variable. A String is usually words, enclosed with "" or ‘’.Eg String x ="Welcome to FSDS" X is the Variable, and we declared it as a String, using the single = to assign the text to it.

3. Describe three different data types.

Numeric -int, float, complex

String –str

Sequence - list, tuple, range

Mapping – dict

Boolean -true ,false

Set - set, frozeenset.

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

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. An example of expression can be : x = x + 1 0 x = x + 10 x=x+10.

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

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 – Bacon =22

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

'spam' + 'spamspam'

'spam' \* 3

O/P -spamspamspam

spamspamspam

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

Because variable names cannot begin with a number.

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.' – **O/P -can only concatenate str (not "int") to str**