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.

**Answers-**

\* - expression

Hello - values

-87.8 - values

- expression

/ - expression

+ - expression

6 - values

1. What is the difference between string and variable?

**Answer -**

- String is a data type and we store variables in data type.

- A type (or data type) defines the structure of data that will be stored in an object (variable) of that type. A variable is a named instance of that data type. Teaches and does research in all aspects of programming languages.

1. Describe three different data types.

**Answer -**

1. Integer- In this data type we can store all natural numbers.

Eg.- 7, -8, 4, 6, etc.

1. String- In this data type we are able to store more that one sentence or group of characters like some words or sentences.

Eg- “Parth”, ”This is my first assignment”, etc.

1. Float- In this data type we can store floating number like number which includes decimal points in it.

Eg- 45.6, 78.8, 0.3, 0.06, etc.

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

**Answer -**

Expressions are just operators that are able to evaluate 2 numbers using any operator like arithmetic, boolean or logical.

-Arithmetic operator does +,-,\*,/ like these operations.

-Boolean operator only gives two values in output -True,False.

-Logical operator it compares two variable using &, OR.

5. This assignment statements, like spam = 10. What is the difference between an

expression and a statement?

**Answer-**

expressions are statements. Expressions can also include function calls

Python statement is made up of one or more Python expressions. Functions are also expressions.

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

bacon = 22

bacon + 1

**Answer-**

It will give **23** as we are increasing bacon by one number.

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

1.spam + spamspam

2.spam \* 3

**Answer-**

1.spam + spamspam

==> spamspamspam

2.spam \* 3

==> spamspamspam

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

**Answer-**

Because the rule for assigning the name in python is that it should always starts from any name or only one special character that is “\_” this

And all other special char will not use. And we cannot use numbers as variable.

So that eggs=45 this is valid

100=67 this is not valid.

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

**Answer-**

len(), sort(), append(). these are some functions that are used to get integer, string and floating-point numbers.

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

I have eaten + 99 + burritos.

**Answer-**

We have to use here “” this braces.

So that the error will not any more.

I have eaten + 99 + burritos

==>”I have eaten” + 99 + “burritos”