**PYTHON BASIC ASSIGNMENT 1**

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.

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Ans: expression

'hello'

Ans: value

-87.8

Ans: value

-

Ans: expression

/

Ans: expression

Ans: expression

6

Ans: value

2. What is the difference between string and variable?

Ans: 1) String is quoted in single or double quotes, but variable is not quoted.

2) Variable can store anything but string cannot used to store.

3) Example for string is ‘hello’, ‘’age”

Example for variable is a=5, b=’name’

3. Describe three different data types.

Ans: 1)integer – Data type which can store number without decimal place Ex:3

2)float-Data type which can store number which has decimals Ex:4.5

3)string-Data type which can store alphabets, word or other character.Ex:’name’

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

Ans: expression contains operators ,values and variable. Expression gives a value.

Ex: n=10+11

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

Ans: Expression contains operators ,values and variable. Statement is an instruction that a interpreter can execute.

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' Ans: ‘spamspamspam’

'spam' \* 3 Ans: ‘spamspamspam’

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

Ans: Variable should not start with number. Since 100 starts with 1 and is a number it is invalid. Whereas eggs starts with e it is valid.

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

Ans: For integer int() is used.

For floating point number float() is used.

For string str() is used.

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

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

Ans: Since data type of 99 is int and data type of both ‘I have eaten’ and ‘burritos’ is string, int cannot be concatenated with string. So, this causes an error. To fix this int type 99 should be type casted to string.