Python Assignment 1 Answers­-

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.

\* expression

'hello' value

-87.8 value

- expression

/ expression

* expression

6 value

2. What is the difference between string and variable?

Ans: a variable is used to store information, and a string is a type of information you would store in a variable. A string is usually mix of words, numbers sometimes special characters(depends how it is written), enclosed with “” or ‘’ or “““”””

In variable use the single = to assign the text to it

For Ex: X=”Welcome to SoloLearn”

Here X is variable, and text is string

3.Describe three different data types

Ans: 1: Numeric

1.1 Int : Integer is used to assign variable with numeric value without floating point

1.2 Float : FLoat is used to assign variable with numeric value with floating point

1.3 Complex: Complex is used to assign variable numeric value without floating point

2.Sequence

2.1 string : strings are arrays of bytes representing Unicode characters

2.2 List : Lists are just like the arrays, declared in other languages which is a ordered collection of data

2.3 Tuple :tuple is an ordered collection of python objects

3 Boolean

Datatype with one of the two built – in values, True or False

4 Set

Set is an unordered collection of data type that is iterable, mutable and has no duplicate elements.

5 Dictionary

Is an unordered collection of data values, used to store data values like a map, which unlike other data types that hold only single value as an element, Dictionary holds key:value pair

Q4. What is an expression made up of? What do all expressions do?

Ans: An expression is made up of variables, operators, and values, that combined in single sentence or expression so that it can check single value at a time.

Q5. This assignment statements, like spam=10. What is the difference between an expression and a statement?

Ans: spam =10 is a statement.

Q6. After running the following codes, what does the variable bacon contain?

bacon=22

bacon+1

Ans: bacon=22

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

‘spam’+’spamspam’

‘spam’\*3

Ans: both statements give same result as ‘spamspamspam’

Q8. Why is eggs a valid variable name while 100 is invalid?

Ans: Python variable can’t be start with number, it can start with letter, underscore or word.

But variable contain numbers also after letter or word or underscore.

Q9. What three functions can be used to get the integer, floating-point number, or string version of a value?

Ans: integer = int(), floating-point number=float(), string =str() functions used.

Q10. Why does this expression cause an error? How can you fix it?

‘I have eaten’+99+’burritos’.

Ans: It cause error because, here used string and numeric number to contenate or join. We can use only string to string joining only.