Python 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.

\* --> expression.

‘hell’ --> Value

-87.8 --> Value

- --> Expression

/ --> Expression

+ --> Expression

6 --> Value

2. What is the difference between string and variable?

String is a type of information and variable store the information.

Ex : string x = “Akish”

In the above example “Akish” is the string and x is the variable.

3. Describe three different data types.

* a) **Integers** – This value is represented by int class. It contains positive or negative whole numbers (without fraction or decimal). In Python there is no limit to how long an integer value can be.
* B) **Float** – This value is represented by float class. It is a real number with floating point representation. It is specified by a decimal point. Optionally, the character e or E followed by a positive or negative integer may be appended to specify scientific notation.
* C)**Complex Numbers** – Complex number is represented by complex class. It is specified as *(real part) + (imaginary part)j*. For example – 2+3

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

An expression is a combination of operators and operands that is interpreted to produce some other value. Expressions do the calculation according to it.

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

The Expression is the combination of the variables, value and operator.

Statement is used to exception handing to make the code cleaner and much more readable.

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

bacon = 22

bacon + 1

After running the code, the bacon got incremented by one. It will change the 23.

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

'spam' + 'spamspam'

'spam'\* 3

The both get the same output that is ‘spamspamspam’.

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

The variable name should not be a number. Eggs is not a number so it is valid variable name.

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

The three functions are:

1. Int
2. Float
3. For the string their no function is required because the input function itself takes the input as a string and if want to convert the any data type to string. string function is helpful.

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

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

This expression causes a datatype error because the expression is trying to add a string with the integer.

So resolve it the 99 should be passed as a string.

Like ‘99’.