Assignment No. 1

1) In the below elements which of them are values or an expressions ? eg: values can be integer or string and expressions will be mathematical operators.

(*, 'hello', -87.8, -, /, +, 6)

No	Values (Integer/String)	Expressions (mathematical operators)
1	'hello'	*
2	-87.8	-
3	6	/
4		+

2) What is the difference between string and variable ?

String is a data type of python , and variable means it store the information of the data types like str, int etc.

3) Describe three different data types.

- String – sequence of characters.
- Integer- numbers except the decimal points and fractional components.
- Boolean- True/ False
- Floating point- decimal numbers.

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

An expression is a combination of values, variables, operators, and calls to functions.

Expressions are representation of values, variables, operators.

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 statements does not.

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

bacon = 22

bacon + 1

23

```
In [4]: bacon =22

In [5]: bacon + 1
Out[5]: 23
```

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

'spam' + 'spamspam'

'spam' * 3

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In [6]: 'spam'+'spamspam'
Out[6]: 'spamspamspam'

In [8]: 'spam'*3
Out[8]: 'spamspamspam'
```

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

Because variable names can not begin with numbers.

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

Int()

Float()

Str()

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

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

Since 99 is an integer concatenation only having with string

'I have eaten '+str(99)+'burritos.'