ASSIGNMENT 1

1] Values   Mathematical operators

'hello' — string. $*$ $\rightarrow$ Arithmetic.

−87.8 — float $-$ $\rightarrow$ Subtrac^n

6 — Integer $/$ $\rightarrow$ Division

                                   $+$ $\rightarrow$ Addition.

2] String — String is sequence of characters
enclosed within (" ") inverted commas.
Variable — Is a container that stores
data (diff. types)
We can store string in a variable.

3] Datatypes
1) Numeric : Contains numeric values
int, float, complex.
2) Boolean : Contains ~~too~~ true/false
3) Sequence : Contains sequence of
characters
list, tuple, ~~dictonary~~, range, string, etc.
4) Mapping : Dictonary.
5) Set — Set & frozenset.

4) Expression: It is combination of operators, constants & variables. Expressions produce some other values by performing operations.

5)
Expression	Statements.
1) Always return a val.	1) Never returns a value
2) Can print result value	2) Cannot print any value.
3) Eg: $x + y = 10$	3) Eg: loops, classes, def, pass, del, etc

6)
```
bacon = 22
bacon +1
→ 23.
```
Will increment value by 1.

7) a) Spamspamspam.

b) 'spam' * 3 ⇒ spam|spam|spam

no spaces.

8) A variable name cannot start with number.

Variable name always start with alphabet underscore.

9) int() function is used to get integer value.

float() returns floating point no. from no./string.

str()

10) We cannot add different datatypes. Only strings can be concatenated to other strings by '+' operator.

The error can be fixed by

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