**ASSIGNMENT 1**

1. **\*:** It is an expression, as this is a mathematical operator which is used for multiplication.

**‘hello’:** It is a string.

**-87.8:** It is an integer.

**-** : It is an expression, as this is a mathematical operator which is used for subtraction.

**/:** It is an expression, as this is a mathematical operator which is used for division.

**+:** It is an expression, as this is a mathematical operator which is used for addition.

**6:** It is an integer.

1. **Difference between string and variables:** The string is a datatype which is used for characters, whereas variables are a name to which any type of values (it can be int, str, float, bool) can be assigned.
2. **Three Different Datatypes:**

* **Int:** It is used for integer values. E.g., 1,2,-1,-2
* **Float:** It is used for decimal values. E.g., 1.2, 7.9
* **Str-** It is used for characters. E.g., ‘Ram’, ‘John’

1. An Expression is made up of operators and operands that interpret to make other values, for e.g., arithmetic expressions which are for mathematical operations like addition, subtraction, multiplication, division, etc.

An expression is used to perform different operation to create new values, or find relation between two or more values, etc.

1. **Difference between statement and expression:** An expression is a combination of values, operators, and variables which produce a result, whereas the statement is a set of instructions that interpreter can execute.
2. **bacon= 22**

**bacon+1**

The variable bacon contain 22, as in the +1 statement 1 is not assigning to bacon so it’ll not get add and it remains 22.

1. It will produce:

spamspamspam

spamspamspam

1. eggs is valid variable name as this is starting from a character, while 100 is starting from an integer which is invalid as per variable naming rule.
2. Three functions that can be used to get the integer, floating-point number, or string

version of a value are int(), float(), str().

1. **'I have eaten'+ 99 + 'burritos.':** In this code we are concatenating string with integer which is not possible, all should be string.

This can be fixed if we write the integer as string:

**'I have eaten'+ ‘99’ + 'burritos.'**