Assignment\_1

1. Ans

Values are ‘hello’, -87.8, and 6.

Expressions are \*, -, /, +

1. String is a kind of data type which is stored in variable inside double quote or single quote. Variable is something in which we store any kind of data type such as str, int, bool, set, list, tuple etc
2. Str – This is kind of data type which is assigned to a variable inside double quote or single quote. Str is by default iterable object.

Int – Integers are element of the int data type. Int data type can also be stored in variable and further can be used for mathematical calculation. Int data type is assigned to a variable without the single quote or double quote.

Bool – This data type has two elements True and False or 0 and 1.

1. Difference between Expression and statement

* An Expression always returns a value.
* Functions are also expressions. Event a non returning function will return “none” .value, so it is an expression.
* Can print the result value.
* Example of python expressions: “Hello” + “World” and 4+5.

While

* A statement never returns a value.
* Can’t print any result
* Example of python statements: Assignment statements, conditional branching, loops, classes, import, def, try, expect, pass etc

1. After running following given code in question, bacon still contains int value 22.
2. Value of following two terms given in question will be ‘spamspanspam’ and ‘spamspanspam’.
3. Eggs is valid variable but 100 is not because a variable can start with alphabet and underscore only. It can’t start with digit.
4. Functions int(), float(), and str() can be used to get the integer, floating-point number, or string version of a value.
5. ‘I have eaten’ + 99 + ‘burritos’ will through an error because we are trying to concatenate different type of date type. To fix this we have convert the int data type 99 in to str data type. ‘I have eaten’ + str(99) + ‘burritos’ now this will work perfectly.