Assignment 1

1. \* - / + will be expressions.

‘hello’ -87.8 6 will be values

1. A string is a set of alphanumeric characters which can be accessed by using the indexes starting from 0 and also a string is immutable i.e. we cannot manipulate a string, while a Variable is something which stores values the reason why it is called a variable because its values keeps on changing. A variable can store any type of values ranging from String, Integers, Boolean etc.

Eg

Var = “hello”

Here var is the variable and hello is the string.

1. Three types of data types are:
2. Numeric: It has Int , Float, complex data types as their subtypes it will always have data which are in the integer format. Eg var=5, b=5+6j etc
3. String: It has always datas in the form of alphanumeric forms any values which are

Enclosed withing the quotes are automatically considered to be strings

Eg str=”Python”, alphanum = “123fourfivesix”

1. Boolean: These data types has two values which are True and False, which represents

0 and 1 respectively. Eg alpha = True, beta = False

1. An Expression is made of at least an operator and more than one or two operand it is used to solve a given expression. Eg

a \* b here a, and b are variables also called operands, while the \* is the operator

and together a \* b is an expression which gives the products of two variables a and b.

1. An expression is something which will have an effect upon it, while for statement it may or may not have an expression eg:

a = 2

b = a+3

print(“The sum of the two variables a and b are”,a+b)

here in the above code the 3rd line is a statement while the 1st and 2nd lines are expressions.

Hence spam = 10 is an expression

1. The value of the bacon will be increased to 23
2. ‘spam’ + ‘spamspam’ o/p = spamspamspam

‘spam’ \* 3 o/p = spamspamspam

1. Eggs is a valid variable name because it is meeting the criteria for a variable that it starts with alphabets, while 100 is not a valid variable name because it does not meet the criteria as it does not meets the criteria to be a variable as variable name cannot start with Numbers.
2. To get integer value we can use int() function

To get the Float value we can use float() function

To get the string value we can use str() function

1. ‘I have eaten ‘+99+’ burritos ‘ is causing an error because concatenating a string and int is b=not allowed hence to resolve this we need to give the value 99 in string format i.e we nee to enclose it within quotes. Eg below statement will give the correct output.

‘I have eaten ‘+’99’+’ burritos ‘