Assignment 1

1. \*,-,/,+ are operators which are used to perform mathematical operations. These operators can be also used for strings for some cases. Ex: ‘arun’ + ‘chandar’ returns the value ‘arunchandar’. Another example is ‘arun’ \* 2 returns the value ‘arunarun’

'hello' – if a data is inside single or double quotes, its data type is the string

6 – this is an integer

-87.8 – datatype of this value is float

1. The difference between a variable and a string is that variables are used to store data whereas a string just gives us particular information or it's just a letter or number or word or sentence. Values cannot be stored in a string

Spam – variable name when values of any data type can be stored

‘spam’ – gives the information that something is spam and it’s a string datatype

1. The different data forms are,

Integer,

Floating point number,

String

1. An expression is something that represents the value of any particular data type. The function of expressions is to evaluate the code and represent the appropriate data.
2. A declaration is nothing but assigning a variable to some data so that it can be called later. The difference between declaration and expressions is that declaration is creating and assigning a variable to a particular data type whereas expression is a combination of values, operators that returns a particular data of any datatype.
3. The variable bacon contains the value 23
4. ‘spam’ + ‘spamspam’ gives the value ‘spamspamspam’

‘spam’ \* 3 gives the value ‘spamspamspam’

1. You can assign a string as a variable name. so we can use egg as a variable name. but int values cannot be used as a variable name.
2. To convert a value to an integer, we use int()

To convert a value to a floating-point number, we use float()

To convert a value to a string, we use str()

1. ‘I have eaten’ + 99 + ‘burritos’

This expression results in an error because it is not possible to merge an int data type and a string datatype. To run this expression, we have to use

‘I have eaten’ + ‘99’ + ‘burritos’