Assignment 1

**1. In the below elements which of them are values or an expression? eg:- values can be**

**integer or string and expressions will be mathematical operators.**

**\*** - It is expression

**‘hello’ –** It is value

**-87.8 –** It is value

**-** - It is expression

**/** - It is expression

**+** - It is expression

**6 –** It is value

**2. What is the difference between string and variable?**

Variable can be any named location that is used to store data .

Example A = "car", here A is variable.

Whereas string itself will act as data. Here “car” acts as a string

**3. Describe three different data types.**

The 3 data types are integers, floats and string

i.Integers : They are whole number without fraction

x=-1

y=2

Here -1 and 2 are integers

ii.Floats : Floats are number with decimal points

x=3.6

here 3.6 is a float number

iii.Strings : Are sequence of character data that are enclosed in quotes.

X= “Hai good”

Here Hai good is considered as string

**4. What is an expression made up of? What do all expressions do?**

Expressions are made of different operators that is intended to produce some value

x = 2 + 3

The above expression will help us to fetch the result of 5

**5. This assignment statements, like spam = 10. What is the difference between an**

**expression and a statement?**

Spam = 10 is a statement in which spam is declared as 10. Expressions can be assigned or used as operands, while statements can only be declared. Statements create side effects to be useful, while expressions are values or execute to values.

**6. After running the following code, what does the variable bacon contain?**

**bacon = 22**

**bacon + 1**

barcon value will be 23

**7. What should the values of the following two terms be?**

**‘spam’ + ‘spamspam’**

**‘spam’\*3**

The output is ‘spamspamspam’

**8. Why is eggs a valid variable name while 100 is invalid?**

Variable name is something that will help to store data. Here egg can be considered as valid variable name whereas 100 itself is a considered as data. Phyton can check true value of statement and hence number like 100 cannot be considered as valid variable name

**9. What three functions can be used to get the** **integer, floating-point number, or string**

**version of a value?**

The three functions that are used to get integer, floating-point number, or string are int(), float(), and str() respectively.

**10. Why does this expression cause an error? How can you fix it?**

**‘I have eaten’+ 99 +’burritos’**

This is because 99 is considered as integer rater than string. This can be fixed by the following

“I have eaten”+ “99” +“burritos”