**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.**

**\***

**“hello”**

**-87.8**

**-**

**/**

**+**

**6**

Ans:Vaules are integers and string. Expressions are mathematical operators

So string is “hello” and interges and floating point numbers are -87.8 and 6 so these are values.

And opeartors are:\*,-,/,+.

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

Ans:Variable are data storing entity in a program while string is one of the data type that is stored in variable.

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

Ans:Three mostly used data type are:

a)String

b)Integer

c)Floating point number

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

Ans:An expression is combination of operators,variable and literals that evaluates a single value.

They are used to evluate values.

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

**expression and a statement?**

Ans:Expressions is combinations of variables,and literals that evaluates a single value while statement is a line of code that performs an action.

For eg:

a = 5+5

here 5+5 is an expression while a = 5+5 is an statement.

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

**bacon = 22**

**bacon + 1**

Ans:After running the following,bacon contains the “22”.

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

**‘spam’ +’spamspam’**

**‘spam’ \* 3**

Ans:1) **'spamspamspam'**

**2)** **'spamspamspam'**

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

Ans:A variable can only start with a letter or a underscore character.

So “egg contains only letters but 100 contains digit that’s why eggs is valid variable name while 100 is not a valid variable name.

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

**version of a value?**

Ans:int(),float(),and str()

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

"i have eaten" + 99 + "burritos"

Ans:Since 99 is not a string it’s a interger data type that’s why its not possible to concatenate a interger and string.

Thanks for this assignment!

Have a nice day,Sir!