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.

\* - **expression**

"hello" **– value**

-87.8 **- value**

- **- expression**

/ **- expression**

+ **-expression**

6 **- value**

2. What is the difference between string and variable?

**Ans: A Variable is a store of information, and a String is a type of information you would store in a Variable. A String is usually words, enclosed with " ”**

**x ="HELLO WORLD "**

**X is the Variable, and HELLO WORLD is the String**

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

**Data type specifies the type and size of values that can be stored in a variable.**

**Three different datatypes are:**

**String : It only accepts character data.**

**Integer: it only accepts an integer value.**

**Boolean: It only accepts a true or a false value.**

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

**An expression is a construct made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates to a single value.**

**Expression are used to perform several tasks in programming.**

**5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?**

**An expression is evaluated to a single value where as statement remains as it is.**

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

**bacon = 22**

**bacon + 1**

**bacon contains 22**

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

**‘spam’+ ‘spamspam’**

**‘spam’\* 3**

**Both expression evaluate to the string “spamspamspam”**

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

**As variables name cannot begin with a number 100 is invalid**

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

**int(), string(),float() can be used to get the integer the integer, floating-point number, or string version of a value.**

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

**I have eaten + 99 + burritos**

**The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos’**