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 (String)**

-87.8 ……….**values (Float)**

- …………**Expression**

/ …………**Expression**

+ …………..**Expression**

6 ………….**Value (Integer)**

2. What is the difference between string and variable?

**String is a data type and always in a quotation. Variable is used to store any data type and no need of quotation. For Example a=”John” here ‘a’ is Variable in which we have store string data ’John’.**

3. Describe three different data types.

**Basically data type is used for categoriesing the values.**

**Integer :- In this data type we consider all the integer values which contain negative and positive both numbers without fraction or decimal numbers.**

**String:- In this data type we consider collection characters which we write in single quotation or in double quotation.**

**Boolean :- In this data type we have only 2 values i.e TRUE and FALSE.**

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

**Expression is made up of combinations of operator and operand which will return some value. We can say we will get result out of it that either we store in variable or use for further calculation.**

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

expression and a statement?

**Expression will return a value or we can say it will return result. But statement does not return anything.**

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

bacon = 22

bacon + 1

**Ans:- 23**

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

'spam'+'spamspam' **Ans:- 'spamspamspam'**

'spam'\*3 **Ans:- 'spamspamspam'**

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

**Variable name contain character, underscore and numbers. But variable always starts with either letter or underscore. From above reason we can say eggs is a valid variable and 100 is invalid variable.**

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

version of a value?

**To get the integer, floating-point number, or string version of a value we have int(), float() and str() functions.**

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

‘I have eaten’ + 99 + ‘burritos.’

**Ans:- 99 is an integer value and in this expression we are trying to concatenate string with Integer and this is not possible that’s why we are getting error. We can Fix this issue by converting integer into string means write integer in quotation. ‘I have eaten’ + ‘99’ + ‘burritos.’ Like this.**