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.

\* Operator /Expression

'hello' value

-87.8 value

- Operator /expression

/ Operator /expression

* Operator /expression

6 value

2. What is the difference between string and variable?

String : Alphanumeric characters type . eg: text , numbers , symbols etc

Variables : can store various data types like int, string, float etc’ eg: c=10 and c is a variable.

3. Describe three different data types.

Int – integers . stores numbers eg:1, 2, 1000 etc

Float – stores numbers with decimal. Consumes more space than int eg: 1.1, 2.2 1000.1234

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

Expressions are made up of Operators, Constants and/ or Variables and or functions intended for deriving, process, evaluate or looking up values or results.

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

Expression : processes and evaluates a value

Statement : stores value of 10 to a variable ‘spam’

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

bacon = 22

bacon + 1

bacon value will be 22 since the addition operation(bacon + 1

) is not stored into itself or to any other variable.

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

'spam' + 'spamspam'

'spam' \* 3

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

‘eggs’ is s string and 100 is an integer. We cant store values into an integer since computer identifies an integer as a value.

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

Integer – int()

Floating point number – float()

String – str()

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

'I have eaten ' + 99 + ' burritos.'

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