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: -**

| Values | Expression |
| --- | --- |
| ‘hello’ | \* |
| -87.8 | - |
| 6 | / |
|  | + |

2. What is the difference between string and variable?

**Ans: -**

| String | Variable |
| --- | --- |
| String is a data type. | Variable is a storage which holds data. |
| Each character of the string is represented by index. | Variable is created in RAM with an ID to find the location of the variable. |
| Any text enclosed with in ‘’ or “” are considered as string. | Variable name can not start other the with underscore ( \_ ) or alphabet. |

3. Describe three different data types.

**Ans: -**

1. **Integer: -** An integer is a data type which holds the whole number be it negative or positive. e.g. 3, 98, -234 are integer data types.
2. **Float: -** A float is a data type which holds any floating point number. e.g 4.09, 987.098, -8975.8732
3. **Bool: -** Bool is a data type which holds the boolean type of data. e.g TRUE or FALSE.

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

**Ans: -** Expressions are nothing but mathematical operator and it performs the mathematical operations as defined in the statement.

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

expression and a statement?

**Ans: -** The statement defines what kind of value is stored in the variable where as expressions follows the mathematical operation.

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

bacon = 22

bacon + 1

**ANS: -** 22

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

‘spam’ + ‘spamspam’

‘spam’ \* 3

**Ans: -** ‘spamspamspam’

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

**Ans: -** A variable name can be only start with an alphabet or underscore( \_ ). So eggs is valid name but 100 is invalid.