**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' - Values

-87.8 – Values

- Expression

/ - Expression

+ - Expression

6 – Value

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

**String** : Anything that is enclosed within single or double quotes becomes string

**Variables** : Variables are used to store values , in OOPS concept variables are referred as objects

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

**Integer :** Example – 1,2

**Float :** Example – 1.2, 25.4

**String :** Example – ‘1’ , ‘Bala’, ‘1@#’

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

**Answer :** Expressions are made up of mathematical operands like +, -, \*, / and . They are used to perform mathematical operations that results in a value at the end.

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

**Expression:** An expression evaluates to a value. Expression is a combination of variables, operations and values that yields a result value.

**Statement:** Statements represent an action or command

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

bacon = 22

bacon + 1

**Answer :** bacon contain 22 since the new value is not assigned to it after manipulation.

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

**Answer :**

'spam' + 'spamspam' = 'spamspamspam'

'spam' \* 3 = 'spamspamspam'

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

**Answer :** A variable name cannot start with a number

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

**Answer : Str()**

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

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

**Answer :** concatenation is possible only between same data type. Since 99 is of int data type and others are String data type it’s not possible

**'I have eaten ' + ‘99’+ ' burritos’** by this way concatenation is possible