**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' | String |
| -87.8 | Integer |
| - | Mathematical Operator |
| / | Mathematical Operator |
| + | Mathematical Operator |
| 6 | Integer |

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

String means collection of any alphabets or characters. And variable means defining value to any character.

Ex. **String ->** ‘Hello’

**Variable ->** a=10 then a is any variable

**3. Describe three different data types**

int – It contains in positive and negative values

str – it is a collection of characters

bool – it is either true or false

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

Expression is combination of mathematical operators, constant and variables.

(ex. A=10; B=20; C=A+B)

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

In the above question spam, “=”, and 10 is an expression

Where ‘spam = 10’ is a statement when we combine all expressions all together then it form statement

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

bacon = 22

bacon + 1

**Ans –> bacon = 22**

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

'spam' + 'spamspam' = **spamspamspam**

'spam' \* 3 = **spamspamspam**

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

**Ans ->** Because 100 is Integer value and Variable name never be an Integer Value. It is only a Character or String.

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

**Ans ->** int() , float() , str() .

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

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

**Ans - >**

This expression causes an error because in this 99 is the only one datatype is integer where datatypes of others are string

'I have eaten ' + ‘99’+ ' burritos.'