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.

ANS :

\* - Expression

'hello' - Value

-87.8 - value

- = expression

/ - expression

* - expression

6 - value

2. What is the difference between string and variable?

ANS : String is a set of words which we defined to a variable while coding. We can assign a variable to a string. We define string always in /double/Single quotes. For variable, it is must to assign some value as string or integer.

For eg.: String : “This is pratima mahajan”

Variable : a=”This is Pratima mahajan”, where ‘a’ is the variable.

3. Describe three different data types.

ANS. – String, integer, floating number, imaginary number, Boolean.

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

ANS. – Expressions are made up of all mathematical operations such as +, \*, /, -, =, Also (), “”, ‘’, :. Expressions perform the operations in in code such as summation etc. it executes the code.

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

ANS. – This assignment statements, like spam is a statement. ‘=’ is a expression which is expressing that like spam is equal to 10.

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

bacon = 22

bacon + 1

ANS – After running the above code, result is 23. In which variable bacon is an integer 22.

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

'spam' + 'spamspam'

'spam' \* 3

ANS –

'spam' + 'spamspam' = ‘spamspamspam’

'spam' \* 3= ‘spamspamspam’

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

ANS – we can assign letters as variable like ‘eggs’, but we can not assign only an integer as variable, it will give syntax error.

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

ANS – int(), Str(), float()

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

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

ANS – In above code, there are 2 strings and ‘99’ is an integer. We can not add string + integer. For that we have to typecast integer as string. PFB,

'I have eaten ' + str(’99’) + ' burritos.'