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 : Operators : \*,-, /,+

Values : ‘hello’ , -87.8

2. What is the difference between string and variable?

Ans:

* A string is the values inside the quotes assigned to a string.
* A variable can hold a string, but a string can't hold a variable.

Ex : S = “Satyabrata Sahoo”

Here S is the Variable and we Declared it as a String.

3. Describe three different data types.

Ans.

* Integers : This Value is represented by int class.

Ex: a = 10

* Float : This Value is represented by float class.

Ex : b = 10.5

* Complex Numbers – Complex numbers is represented by complex class.

Ex : c = 10+4j

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

Ans : Expression are representations of Value . They are different from statement in the fact that statements do something while expressions are representation of value.

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

Ans : An Expression can be defined as any element in our utility thar evaluates some values.

Statements represents a motion or command Mission statements . ( Print statements)

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

bacon = 22

bacon + 1

Ans : The bacon variable is set to 22. The bacon + 1 expression does not reassign the value in bacon (that would need an assignment statement: bacon = bacon + 1)

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

'spam' + 'spamspam'

Ans : 'spamspamspam'

'spam' \* 3

Ans : 'spamspamspam'

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

Ans : Because variable names cannot begin with a number.

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

Ans : The int(), float(), and str() functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

Ans :

The Correct way is ‘I have eaten’+ str(99)+’burritos’.