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

Answer:

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

2. What is the difference between string and variable?

Ans: Variables are used to store values and variables have data types like int , float, string. String is a data type which stores values in quotes like ‘Mumbai’, ’Delhi’ etcetra.

3. Describe three different data types.

Ans: 1. Int: The int data type stores values of whole numbers. Eg: 0,99,199,2000

2. Float: The float data type stores decimal values. Eg: 1.1, 2.09, 8.329

3. Boolean: It has two values True or False.

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

Ans: An expression is made of constants, variables , operators which work together to give another value.

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

Ans: Assignment is used to assign a value to a variable it can be a string, integer value or float value etcetra, an expression consists of variables, constants, operators.

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

bacon = 22

bacon + 1

Ans: In the absence of print function it will return nothing. In the presence of print function i.e print(bacon+1) it will return value 23.

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

'spam' + 'spamspam'

'spam' \* 3

Ans: Both will return ‘spamspamspam’

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

Ans : 100 is invalid because it is an integer value and cannot be used as a variable to store any other value.

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

Ans: int(),float(),str() are the three functions that can be used.

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

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

Ans: the expression causes an error as 99 is an integer value we can correct it by converting it to string like ‘I have eaten’ +str(99)+ ‘burritos’.