

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($2*2$)

'hello' → String

-87.8 → floating point real values

- → Expression($10-5$)

/ → Expression($10/5$)

+ → Expression($10+5$)

6 → integer(int)

2. What is the difference between string and variable?

Variable → It is place holder where we can store some value for further use

String → String is one of type of data that to be stored in a variable (var="Hello World")

3. Describe three different data types.

Integer, Floats, Complex, Boolean

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

Expression is made up values and operator and expression interpreted by the compiler and creates a new value

Ex: $10+5$

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

Statement is standalone unit, doesn't return any thing (a=10)

Expression interpreted by the compiler and creates a new value ($10+5$)

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

bacon = 22

bacon + 1

Answer is **23**

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?

All variable name should start with letter or '_' and variable name cannot start with number

So eggs is valid name and 100 is invalid name

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

int(), float(), str()

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

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

can only concatenate str (not "int") to str

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