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.

\* : Multiplication Operator

'hello’: It’s a String

-87.8 : It a float value

- : Subtraction operator

/ : Division operator

* : Addition operator

6 : Integer value

2. What is the difference between string and variable?

🡪 We can assign a value (like a string ,float, Boolean, integer) to a **variable** .

🡪 String is one of the data types

3. Describe three different data types.

🡪 String : Anything inside double quotes (“”) :

🡪 Integer : Solid number , no decimal

🡪 float : decimal number

🡪 Boolean : Gives validation whether the condition is RUE or FALSE

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

🡪 Expressions are the core mathematical operators ( +,-,\*,/,% etc ) , used just like in math

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

🡪 if you see an operator used to evaluate a value then it’s a expression

* Anything else is a statement , spam =10 is a statement , any defining statement without evaluation in it is a statement .

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

bacon = 22

bacon + 1

* Bacon = 22
* If it was done , bacon = bacon +1 then bacon would be 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?

🡪 doesn’t follow the rules of python to define a variable , here the variable cannot be a solo number .

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

🡪 type

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

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

* You cannot add int + string
* “I have eaten” + “99” + “burritos”