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 -🡪 Mathematical Or Arithmetic Operators -🡪 + , \* , - , /

Float -🡪 -87.8

Integers -🡪 -6

String -🡪 ‘hello’

2. What is the difference between string and variable?

ANSWER -🡪 String Represents Textual Data , Anything Is in Between Double OR Single We Call it as a String . Suppose I Write Number in a single codes For example : ‘10’ Here I take 10 in single codes and then if I check data type then it will be a string data type . string is immutable Now Variable Variable Means We Assign value to something For Example I f I take name = “Nishant” and further I print(name) I will get “Nishant” for declare variable we use equal to sign .

3. Describe three different data types.

ANSWER -🡪

* String Data Type -🡪 String Represents Textual Data , Anything Is in Between Double OR Single We Call it as a String . For Example : “Nishant”
* Integer Data Type -🡪 It contains whole number . For example : 20,22,42
* Folat Data Type -🡪 Folat data type Contains umbers that have a decimal point For Example : 79.40,61.23

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

ANSWER -🡪 Expression made up of variables values and operators

Example 🡪 x= 5 , y= 2 then x+y = 7

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

ANSWER -🡪 Assignment statement means we assign value to something by using equal to sign and expression means as a result of combination of values we get result

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

bacon = 22

bacon + 1

ANSWER -🡪 Here as a result We’ll get Value Of variable bacon as 23

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

ANSWER -🡪

'spam' + 'spamspam' -🡪 ‘+’ Sign concatenate Two strings as a result of this we get

‘spamspamspam’

'spam' \* 3 -🡪 IT will multiply string 3 times as a result of this we get ‘spamspamspam’

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

ANSWER -🡪 Because we cannot take variable name as a number that’s why 100 is invalid variable name

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

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

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

ANSWER -🡪 Here we get error because we cannot concatenate string and integer

We only concatenate string with a string .

But if I want to concatenate 'I have eaten ' + 99 + ' burritos.' String with other datatype then first we convert 99 to a string then we able to concatenate this string means

'I have eaten ' + ‘99 ‘+ ' burritos.'