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

1. Values : \*, - , / , +

Expressions : 'hello' , -87.8 , 6

2. What is the difference between string and variable?

1. String represents single or group of characters

Variable allocates memory for storing values

Eg : a = “hello”

In above example “hello” is string where as a is variable

3. Describe three different data types.

A) Data Type is nothing but the type of the data which we are storing in the variables.

Str : This data type represents single or group of characters.

Int : This data type represents integers without floating values

Bool : This data type represents Boolean values either True or false

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

A) Expression is made up of values and operators. Expression gives some value

Eg : a = 2\*2+2

In the above example 2\*2+2 is an expression that gives some value

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

A) Expressions we can print and we can assign to variables whereas statements we can’t assign to variables eg: if else statements etc.

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

bacon = 22

bacon + 1

A) 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?

A) we can’t use variables start with numbers in python. As 100 is starting with 1 so we

Can’t use 100 as variable name

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

A) isdigit() ,isdecimal(), isalpha()

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

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

1. This expression causing error because we are using pure number with characters.

Correct expression is

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