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

'hello' : Values (String)

-87.8 : Value(Integer)

- : Expression

/ : Expression

* : Expression

6 : Value(Integer)

2. What is the difference between string and variable?

A variable is a name that can refer to any value

A string is a value representing text

Name = ‘Sowmith’

Here Name is Variable and Sowmith is a String

3. Describe three different data types.

Numeric : This data types used to store Numerical data . For example Integer , Float

Boolean : This data types used to store True or False . For example Bool

Sequence Type: This data types used to store collection of data in an order . For example list,tuple,range

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

An **expression** is a combination of values, variables, operators

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

An expression evaluates to a value. A statement does something.

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

bacon = 22

bacon + 1

Ans: 22

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?

There are some rules for defining a variable name .

1. A variable name must start with a letter or the underscore character.
2. A Variable should not start with a number
3. So Egg is Valid and 100 is Invalid

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

The int(), float(), and str() functions

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

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

Ans: String can’t be concatenated with an int. The error can be fixed if 99 is in string format . Eg: 'I have eaten ' + **‘99’** + ' burritos.' Or : 'I have eaten ' + **str(99)** + ' burritos.'