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' -> value

-87.8 ->value

- ->expression

/ ->expression

* -> expression

6 -> value

2. What is the difference between string and variable?

String:-

It is a data type/ Object

variable:-

It is container/reference of a data

3. Describe three different data types.

1: int : it is integer type. which only contain integer

2: char: It is alphanumearic

3: float: This are numbers with precision part

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

Ans: Expression are made up of mathematical operators. Expressions are responsible to take care of mathematical operations.

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

Ans:Statements are operations which can be given to compiler.It can be logical/mathmatical , Input/Output .On the otherhand expressions only perform mathematical/logical operations.

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'

'spam' \* 3

Ans: ‘spamspamspam’ , ‘spamspamspam’

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

Ans:A variable name should not be nun-aplhanumeric.Here ‘eggs’ start with alphabets on the other hand 100 start with number. python interpreter consider 100 as a ‘int’ rather than a variable.

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

Ans: int(),float(),str()

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

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

Ans: ‘type mismatch error’. we can fix it using typecasting str( 99)