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

Ans. In the given options \*, -, / and + are the expression.

2. What is the difference between string and variable?

Ans. Variable :- Variable is name of the data type or name of the memory allocation of data.

String :- String is data type in python. We can name a string using variable.

3. Describe three different data types.

Ans. Data Types of python

1. Numeric Data Type :- This data type represent the data which has numeric data values. For example, int, float, complex are these are the type of numric data type.
2. String Data Type :- String data type is combination of letters. Which can br represent by using “ “. Ex. D = “ Gaurav” or str(“Gaurav”)
3. Sequence Data Type :- In this type of data set we can strore multiple value in an organized manner. List, tuple, range are the sequence data types.

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

Ans :- An expression is made up of some operators and operand that is uses to produced some values. An expression can be combination of some mathematical operates and some numeric numbers.

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

Ans. Above I explain about the expression and for example , I\*2(4/5)+3 is a expression. A statement is like assignment a value to variable.

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

bacon = 22

bacon + 1

Ans. bacon will contain 22.

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

'spam' + 'spamspam'

'spam' \* 3

Ans :- a) ‘spam’ + ‘spamspam’ -> ‘spamspamspam’

b) ‘spam’\*3 -> ‘spamspamspam’

That means we will get same answers for both statement.

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

Ans. We can’t start a variable name with number. Because of this eggs is valid variable name and 100 is not a valid name.

9. 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. We will get an error during the excitation of this error. Because using + we are concat the string or add numeric numbers. For string concat there should be every not any numeric in string.

We can rewrite this -> 'I have eaten ' + ‘99 ‘ + ' burritos.'

Above code will excute without any error.