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' - expression

-87.8 expression

- values

/ - values

* values

6 expression

2. What is the difference between string and variable?

Ans. A variable is a store of information and string is a type of information we store in variable. String is enclosed in “” and X is a variable

3. Describe three different data types.

Ans. **List-** It is a combination of different-2 data types. It represent in a[ ], it is a changeable concept. In this we can store, insert or access date in the form of index and index start with 0. It is a user defined data type.

**tuple** - It is a collection of different-2 types of data. It represent in a ( ), it is not a changeable concept. In this we can store access data in form of index and index start with 0. It is a user defined data type.

**set**  - It is a collection of different-2 types of data. It represent in a { }, it is a changeable concept.

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

Ans. An expression is a combination of numbers, string, set, tuple etc. It is used to construct single value

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

Ans. In statement refers to a piece of instruction or tells the computer to complete the task but didn’t tell any data type.

An expression is a piece of code that can be evaluated to a value. Example – 5>3

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

bacon = 22 bacon is variable

bacon + 1 it is an expression

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

'spam' + 'spamspam'

'spam' \* 3

Ans. Spam will be 3 times

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

Ans. Because variable can’t begin with number

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. Because 99 should also be in double inverted comma