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 1:-values are ‘Hello’,-87.8,6 and expressions are + ,/,-,\*

2. What is the difference between string and variable?

Ans 2 :- string are the value type and variable which store the value line int, string,

3. Describe three different data types.

Ans 3:-

List-

* It is a one of data type .
* It is mutable .
* List is identify by [ ] brackets.

Tuple:-

* It is a one of data type.
* It is immutable .
* Tuple is identify by ( )

Dictionary:-

* It is one of data type
* It is mutable.
* Dictionary is identify by { } .
* It contain value in key and value.

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

Ans.expression is made up of operator and operands that is use to produce some other value like + symbol of arithmetic operator use to add two value.

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

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

bacon = 22

bacon + 1

Ans6:- variable bacon contain 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans7:- 'spam' + 'spamspam' = ‘spamspamspam’

'spam' \* 3 = ‘spamspamspam’

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

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

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

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

Ans 10:-this expression contain add integer with string but it cause error because integer value cannot add with string value.