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:- expressions-> \*, - , / , +

Values-> ‘hello’ , -87.8 , 6

2. What is the difference between string and variable?

Ans :- Variables are symbols that we can use to store data in a program. Strings are data, so we can use them to fill up a variable.

3. Describe three different data types.

Ans :- data types

Str – str stores string for ex. “hello ineuron”

Int - int stores integers for ex. 56,4,-45 etc

Complex – complex stores complex data for ex. a+ib etc

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

Ans :- A combination of operands and operators is called an expression. The expression in Python produces some value or result after being interpreted by the Python interpreter. An expression in Python is a combination of operators and operands. An example of expression can be : x = x + 1 0 x = x + 10 x=x+10.

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

Ans :- The expression in Python produces some value or result after being interpreted by the Python interpreter. A statement in Python is not evaluated for some results.

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’

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

Ans :- beacouse variable can not begin with a number or symbol.

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

Ans:- The int() , float() , and str( ) functions will evaluate to the integer, floating-point number, and string versions of the value passed to them.

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

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

Ans :-Because 99 is an integer and an integer cannot concatenate with strings both are different data types.