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- \* Expression

‘hello’ Values

-87.8 Values

- Expression

/ Expression

+ Expression

6 Values

2. What is the difference between string and variable?

Ans- A variable we store an information whereas a string is a data type of information we store in a variable

Example- name=’vanya’ here name is a variable and Vanya is a value stored in name of type string.

3. Describe three different data types.

Ans- 1. Numeric data type: In python, it represents the data which has numeric value. Numeric value can be integer, floating number or even complex numbers. These values are defined as int, float and complex class in Python.

2. Sequence Type: In Python, sequence is the ordered collection of similar or different data types. Sequence allows to store multiple values in an organized and efficient fashion. There are several sequence types in python- String, List, Tuple

3. Boolean: Data type with one of the two built-in values, True or False. True and False with capital ‘T’ and ‘F’ are valid Booleans otherwise python will throw an error.

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- Expressions can be assigned or used as operands, while statements can only be declared

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- Because variable names cannot begin with a number.

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- ‘I have eaten’ +’99’+’burritos’.