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.

Integer/ string Mathematical operators

'hello' +

-87.8 \*

6 -

/

2. What is the difference between string and variable?

Ans:- String is data type or its data which is in character Form like ‘HELLO’ and variable is name of Place where data type is stored.

3. Describe three different data types.

Ans:- Python are the classification or categorization of data items

SCALAR TYPES

1) Boolean:- Boolean Data Type is denote possible two value Either True or false and it intended to represent truth value of logic

2)int:-Positive or Negative Whole number (-10,10,256,456,65)

3)float:-Any real number with a floating point is denoted by a decimal symbol (1.44,4.56,888.77)

4)complex:- The number which represent real and imaginary component represent as (X+2Y)

SEQUENCE TYPE

1)String:-A string is value which is the form of character

2)List:-list is collection of data not of same type which is represent in Square Bracket.

3)Tuple:- Tuple is collection of data not of same type represent in parentheses.

MAPPING TYPE

1)Dictionary:- A dictionary is collection of data with key value such data stored in curly brackets {“Rahul :1”,”deepak:2”}

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

Ans:-Expression is made up of operators , literal and variables. Expression represents value.

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

Ans:-statement is instruction that the python interpreter can execute and expression combination of values, variables, operators and call to functions in statement is different combinations of expressions

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

bacon = 22

bacon + 1

Ans :-bacon=22

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

'spam' + 'spamspam'

'spam' \* 3

Ans:- 'spamspamspam’

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

Ans:-Because variable names cannot contain begin with number.

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

Ans:-For integer= int(), floating point=float(),string=str().

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

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

Ans:-expression can only concatenate str (not "int") to str in that we have to remove 99