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.

\* =expression

'hello' =string value

-87.8 =integer value

- =mathematical operator

/ =mathematical operator

* = Mathematical operator

6 =integer value

2 What is the difference between string and variable?

ANS= String is data type and variable is a storage of information

For example “MY NAME ISDNYANESHWAR BHOSALE” this is a string and

variable is X=” MY NAME ISDNYANESHWAR BHOSALE”

1. Describe three different data types.

ANS : 1 : STRING = String is a collection of one or more characters put in a single , double or triple quote. EX=”string”

2: INTEGER = It contains positive or negative whole numbers but fraction or decimal is not contains in integer. EX=-25

3:COMPLEX NUMBER = It is represented by complex class. It is specified as (real part) + (imaginary part)j. EX = -6+9j

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

ANS: It is a combination of values, variable , operator and calls to functions .If you ask python to print an expression , the interpreter evaluates the expression and displays the result . Expression need to be evaluated and always evaluate down to a single value

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

ANS: Expression evaluates to a value and statements represent an action or command. spam =10 is a statements

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

bacon = 22

bacon + 1

ANS: 23

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

'spam' + 'spamspam'

'spam' \* 3

ANS : 1 = “spamspamspam”

2 = “spamspamspam”

8. Why is eggs a valid variable name while 100 is invalid?0

ANS: This expression give a error because 99 is an integer and only string can be concatenated to other string with the +operator.

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

ANS : int() , float() , str()

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

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

ANS: 99 is a integer and other two are string.

'I have eaten ' + ‘99’ + ' burritos.'