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:

Values = 'hello'

Expression = \*, - , /, +

2. What is the difference between string and variable?

ANS : string can be anything which stores in ‘ ’ or “ “

Variables are declared values, which will be used further in the program

3. Describe three different data types.

ANS:

String: Stores data in ‘ ’ or “ “

Integer: Numbers ex -3 , -2 , -1 , 0 , 1 , 34 , 56

Float: Decimal numbers ex: 0.01, 45.56

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

ANS: Expression are mathematical operators, which does ex: addition, subtractions, multiplication, division, comparison etc.

Ex: +, - , \*, /, =

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

ANS: spam = 10 it means value of 10 is assigned to keyword spam

Expression are mathematical operators, which does ex: addition, subtractions, multiplication, division, comparison etc.

Ex: +, - , \*, /, =

Statement are like declaration, doesn’t do any operations

Ex: spam = 10, ABC = xyz

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:

'spamspamspam'

'spamspamspam'

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

ANS: eggs is valid variable name because it is not starting with any number

100 is invalid: Variables cannot begin with numbers

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

ANS: Int() , float() , str()

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

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

ANS: 99 is integer so, it throws error, string cannot be concatenate with integer

By typecasting integer to string, we can run the expression without any error.

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