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 :

Out of above followings are values and expression :

Values - ‘hello’ , -87.8 , 6

Expression - \* , - , / , +

2. What is the difference between string and variable?

Ans :

String : It’s sequence of characters might be visible or invisible repeated in closed in single or double quotation mark .

Variable : It’s kind of entity created to hold data locally which can be processed whenever required .

3. Describe three different data types.

Ans :

Following are three different data type with example :

1. String – x = ‘ Earth day ‘ , y = “ India “
2. Complex no – z = 2+6j , Z = -j
3. List – W = [ 1,-10,’xyz’,’\*’,Z ]

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

Ans:

Expression are made of operators used to produce some values or it evaluates to a value . ex - mathematical operators and they does work for calculation ( + , - ,/ , \* ).

5. This assignment statements, like spam = 10. What is the difference between an

expression and a statement?

Ans:

Expression :It evaluates to a value and it’s evaluation does’nt change state . Evaluation of expression always produce some result . Ex – spam = 10

Statement : It execute something and execution change state . It’s not mandatory execution of statement always produce result . Ex – spam = 10 and it we give input as print(spam) result = 10 is execution of statement .

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

bacon = 22

bacon + 1

Ans:

bacon contain the integer value 22

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

‘spam’ + ‘spamspam’

‘spam’ \* 3

Ans:

‘spam’ + ‘spamspam’ = ‘spamspamspam’

‘spam’ \* 3 = ‘spamspamspam’

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

Ans:

Eggs is valid variable data name while 100 is invalid because variable is entity which contain fixed data whereas 100 is always a fixed data which value can’t be varied .

9. What three functions can be used to get the integer, floating-point number, or string

version of a value?

Ans:

Followings are function used to get integer , floating-point number or string version of a value:-

Int() , float() , str()

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

‘I have eaten’ + 99 + ‘ burritos’

Ans:

Above expression cause error as it’s a string which must be in closed in single/double quotation mark . Follow is right expression :-

‘‘I have eaten’ + 99 + ‘ burritos’’