1. What are the differences between operators and values in the following?

\*

'hello'

-87.8

-

/

+

6

Ans: +,-,\*,/ are operators and -8.78 and 6 are values and ‘hello’ is a string

Operators are the functions which will perform some sort of operations.

2. What is the difference between string and variable?

spam

'spam'

Asn: Here ‘string’ is a string because string always declared in the double quotation’s or single quotation’s and spam is Variable , make sure that it was not a in-built one

3. Describe three different data forms.

Ans: Integer(int), Float(float), Boolean(bool), Complex (complex), Strings, Lists, Tuples..etc

4. What makes up an expression? What are the functions of all expressions?

Ans: a=(a+1) - (a-1) In this example whole statement makes an expression. The functions of an expressions was to perform some sort of operation, To store some value..etc

5. In this chapter, assignment statements such as spam = 10 were added. What's the difference between a declaration and an expression?

Ans: Declaration means that we are assigning some value direct to the variable and Expression means it has to perform some operations and stores the result to that variable

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

bacon = 22

bacon + 1

Ans: bacon =22 , Because bacon doesn’t stores added value so it remains with 22 only.

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

'spam' + 'spamspam'

'spam' \* 3

Ans: 'spamspamspam' ,

'spamspamspam'

8. Why is it that eggs is a true variable name but 100 is not?

Because the Variable name doesn’t contains numbers rather than contains with alphabets or with \_ or alphanum.

9. Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

Ans: int(value ) , Float(value) , str(value)

10. What is the error caused by this expression? What would you do about it?

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

Ans: The error is with 99 because 99 is treated as Integer so the string concatenation doesn’t workout. To reduce this error I can do the convert operation that 99 into string by giving str(99) so it will treated as string and the expression will works without an error

Result :- ‘I have eaten99burritos’