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

\*

'hello'

-87.8

-

/

+

6

Ans:In the above operators are: \*,-,/+

Values are:"hello",-87.8,6

2. What is the difference between string and variable?

spam

'spam'

Ans:spam is a variable and under quotes ("spam") is a string

3. Describe three different data forms.

Ans: int:Takes integer value

float:takes floating representation of number

comples:for complex representation like 1i+2j

There are also others like dict,list,set,tuples,bool etc

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

Ans:Expression can just be anything like 2+3,involving operator and values.This may also invole functions.These expressions are first computed by interpreter and then only the result are being displayed.

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

Ans: In above Ans there is just operators involved which is an eample of expression.But here when we do spam=10 this is an assignment.In above we are not doing any assignment operation the interpreter computes the result and display it.In a nutshell expression is something which reduces to a value but assignment can't be reduced to a value.

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

bacon = 22

bacon + 1

Ans:22,as there is no assignment after addition.

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

'spam' + 'spamspam'

'spam' \* 3

Ans:same value:"spamspamspam"

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

Ans: variable cant be a number and also can't start with a number.

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():to convert to integer

float():to convert to float

str():to convert to string

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

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

Ans:It will throw "unsupported operand type int and str".

It will work when it would be:

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