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

\*

'hello'

-87.8

-

/

+

6

Ans: Operators are used to do some operation on values like Addtion,subtraction,multiplication,division etc..

Here operators are \*,-,/,+

Values are 87.8,6, hello

2. What is the difference between string and variable?

spam

'spam'

Ans: string is sequence of characters enclosed in ' ' or " ". Variable is reference for what we create or refer it may be string or int values or other data types values.

example: spam ='spam';

3. Describe three different data forms.

Ans: int, float, string,bool.

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

Ans: An expression is a combination of values, variables, operators, and calls to functions.

Functions are piece of code which runs when it is called. Functions are mainly

Built in function and user difined functions.

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

Ans: Actually declaration is not required in python means no need to bind for any data type.

Expression is combination of different opearators and values after computation will return some value.

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: 'spam' + 'spamspam'= 'spamspamspam'

'spam' \* 3 ='spamspamspam'

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

Ans: variables names can not be start with 100. when we use int(), float(),str() functions that value evalute to integer, floating-point number, and string versions of the value passed to them respectively.

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: use int(), float(),str() functions to convert integer, a floating-point number, or a string

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

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

Ans: TypeError Traceback (most recent call last)

<ipython-input-4-d24137131a5c> in <module>

----> 1 'I have eaten ' + 99 + ' burritos.'

TypeError: can only concatenate str (not "int") to str