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.

\* - multiplication operator

'hello’ - string

-87.8 - float

- subtraction operator

/ -division operator

* - addition operator

6 - integer

2. What is the difference between string and variable?

Strings always start and end with quotes. So, ‘mohit’ is a string, whereas mohit is a variable. Variables are used to store data in a code. Strings are data that consists of characters of text or characters.

3. Describe three different data types.

Strings- consists of texts and characters

Integers- consists of numbers

Floats- consists of decimals.

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

An expression is a combination of expressions and operators. Expressions evaluate to a single value.

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

An expression evaluates a single statement.

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

bacon = 22

bacon + 1

bacon =22

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

'spam' + 'spamspam' = ‘spamspamspam’

'spam' \* 3 = ‘spamspamspam’

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

Variables cannot start with integers. So, ‘eggs’ is valid but 100 isn't. ‘eggs100’ is a valid variable.

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

int() for integer

str() for string

float() for float

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

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

99 is an integer. Only strings can be concatenated with each other.

“I have eaten.”+ str(‘99’)+ “burritos.”