**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.**

\* - expressions

'hello' - Values

-87.8 - Values

- - expressions

/ - expressions

* - expressions

6 - Values

**2. What is the difference between string and variable?**

A Variable is a store of information, and a String is a type of information you would store in a Variable. A String is usually words, enclosed with ""

**3. Describe three different data types.**

Integer - This value is represented by int class. It contains positive or negative whole numbers. In Python there is no limit to how long an integer value can be.

Float - This value is represented by float class. It is a real number with floating point representation. It is specified by a decimal point.

**Complex Numbers**– Complex number is represented by complex class. It is specified as *(real part) + (imaginary part)j*.

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

Expressions **represent**something, like a number, a string, or an instance of a class. Any value is an expression.name = "Bala" is a statement that assigns name to the value of the expression "Bala". Since the code "Bala" is a simple expression.

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

An expression evaluates to a value. A statement does something.

Spam = 10 # it is a statement

Spam +10 # it is an expression

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

bacon = 22 # it is a statement

bacon + 1 # it is an expression

**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?**

A variable can contain both letters and numbers, but they cannot start with a number.

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

int(), float(), and str()

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

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

String does not allow integers to concatenate, So Change the integer to String in numeric data.

**'I have eaten ' + “99” + ' burritos.' = “I have eaten 99 burritos”**