**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.**

**\* , 'hello', -87.8, - , / , +, 6**

\*, ?, -, + are expressions

whereas, ‘hello’, -87.5, 6 are values

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

A variable is where we can store information, and string is the data which we are want to store. Simply to say, a variable can be said as an empty box where we can store data and string can be the data stored in empty box.

Eg: my\_name = ’Pavan Kumar Chintamaneni’

Here my\_name is a variable and ‘ Pavan Kumar Chintamaneni’ is string

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

The three basic data types in python are numeric, variable and boolean

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

An expression generally is combination of operators, integers, or strings. It will evaluate those combinations and reduce them to a single value.

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

An expression helps in evaluating the code to a single value. Whereasstatement refers to instructions given to computer, what to do.

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

**bacon = 22**

**bacon + 1**

In the above code, after running

bacon = 22,

bacon + 1

sequentially the result will be 23

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

**'spam' + 'spamspam'**

**'spam' \* 3**

Here, both these result in giving ‘spamspamspam’

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

As per rules in python, while naming a variable name, we can’t use all numerical. A variable name can be alphanumerical and can contain A-Z, a-z,0-9. However, a variable name cant start with a numerical. Further we can also use spl characters like ‘\_’.

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

The three functions can be used to get the integer, floating-point number, or string version of a value are int(), float() and str()

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

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

The correct way of writing is

'I have eaten ' + str(int(99)) + ' burritos.'