**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.**

Ans: Values = ( ‘hello’ , -87.8 , 6 ) & Expressions= (\*, - , / , +)

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

Ans: Variables- Variables are symbols that you can use to store data in a program. You can think of them as an empty container that u fill with some data or values

Strings- String is a data type that contains characters. Eg:”vikas prajapati”

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

Ans: Integer, String, Boolean

Integer- Integer is a whole numbers, positive or negative, without decimals, of unlimited length.eg: a = 80

String- Python doesnot have a character datatype, a single character is simply a string with a length of 1. eg: name = “vikas”

Boolean- this datatype represents one of the two values either ‘True’ or ‘False’.eg: a = True, b = False

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

Ans: An expression is a combination of operators and operands that is interpreted to produce some other value. In any programming language, an expression is evaluated as per the precedence of its operators.

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

Ans: In programming language terminology, an “expression” is a combination of values and functions that are combined and interpreted by the compiler to create a new value, as opposed to a “statement” which is just a standalone unit of execution and doesn't return anything.

**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: 'spamspamspam'

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

Ans: Because variable name doesn’t contains only numbers.

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

Ans: int(), float() and str()

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

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

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