**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.**

\* : expression

'hello' : value

-87.8 : value

- : expression

/ : expression

* : expression

6 : value

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

**Ans :** We can store data as variable and String is a type of data that we use to store in variable.

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

String : It is character value data type. It is represented in quotes. It is used as str().

Integer : It is numeric value data type. It is used as int()

Boolean : It is used to convert or return value in boolean value i.e True or False. bool() function is used

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

**Ans :** Expression is used to represent the combination of operators and operands. Expression produces a result or some value as a result of interpretation of code.

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

**Ans :** Expressions can be assigned or used as operands, while statements can only be declared. Statements represent the whole structure while expressions are just building blocks in it.

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

**bacon = 22**

**bacon + 1**

**Ans :** It stills hold integer 22 as we haven’t assigned (bacon + 1) as it’s new value

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

**'spam' + 'spamspam'**

**'spam' \* 3**

**Ans: (1)**  spamspamspam

**(2)**  spamspamspam

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

**Ans:** 100 cannot be a valid variable because we cannot use number to define variable in python. variable name should start with a letter or the underscore character

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

**Ans:** There are some inbuilt functions in python.

* To get integer we should use **int()**
* To get floating-point number we should use **float()**
* To get string we should use **str()**

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

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

**Ans:** We cannot concatenate string and integer together. We need to convert integer – 99 into a string – “99”. Correct code is:

'I have eaten ' + ‘99’+ ' burritos.'