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' **Value**

-87.8 **Value**

-  **Expressions**

/  **Expressions**

* **Expressions**

6  **Value**

2. What is the difference between string and variable?

ANS: String always holds value of a same data type while variable can hold multiple data type.

3. Describe three different data types.

**ANS:** LIST : [“its mutable”]

* + TUPPLE : (“its unmutable”)
  + DICTIONARY : {“its mutable”}

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

**ANS:** an expression consists of variables,functions , values to define any output

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

**ANS:** statement spam=10 is assigning a value and its not returning anything ,its constant on the other hand expression consists of more operaters or functions and always provide values

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

bacon = 22

bacon + 1

**ANS:** if we print bacon value it upgrade to 23

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

'spam' + 'spamspam' **---**  it will be added strings **---** spamspamspam

'spam' \* 3 **---** it will be 3 times **---** spamspamspam

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

**ANS:** we cannot assign a variable name start with any integer due to naming convention rules of python and hence 100 is invalid.

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

**ANS:** int(value),float(value),str(value)

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

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

**ANS:** error is 99 which is integer and we are combining that with string s

Correct is we can convert 99 to string by str(99)

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