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?

Variable - variable is notation which holds value assigned on memory location, that value can be change at any time, type of variable is dependent on what kind of data is assigned to it

String – string is one of data type , whatstever we write in single or double inverted coma is considered as string

3. Describe three different data types.

Numeric – which holds numeric values in it which can be used in mathematical calculations this type can be sub divided into int, float, and complex number

Boolean – which holds either true or falls value in it , it mainly used in conditional statements.

Dictionary – this type is used in in holding key-pair kind of values can be used to store id password kind of thing

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

Expression is any logical or Illogical statement that has combination of operators and operands that is interpreted to produce some other value.

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

Statement means which express data but didn’t process to give new value

Expression has two sides which bound to process given data and produce new results

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

bacon = 22

bacon + 1

* 23

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?

Because 100 violates following criteria Python allows you to name variables to your liking, as long as the names follow these rules: Variable names may contain letters, digits (0-9) or the underscore character \_ . Variable names must **begin with a letter from A-Z** or the underscore \_ character. Either lowercase or uppercase letters are acceptable

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

**The str() , int() , and float() functions** will evaluate to the string, integer, or floating-point number form of the value they are passed.

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

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

* Because int values cannot be concatenated.
* 'I have eaten ' + '99' + ' burritos.'
* I put the 99 into single inverted comma so it treated as string