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'\_ string

-87.8\_ value (float )

- \_Expressions

/ \_ Expressions

* \_Expressions

6 \_ value integer

2. What is the difference between string and variable?

Variables are nothing but reserved memory locations to store values. There two types of variables in Python ,Global variable and Local variable.

A Variable always starts with a letter or the underscore character.

A Variable cannot start with a number.

A Variable ia a name that can refer to any value.

Strings: Strings are data, so we can use them to fill up a variable.

A String is a value representing text.

Eg: S=”aarav”

3. Describe three different data types.

|  |  |
| --- | --- |
| Numeric Types: | int , float , complex |
| Sequence Types: | list , tuple , range |
| Mapping Type: | dict |
| Set Types: | set , frozenset |

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

Expression is made up combination values and operators

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?

An expression evaluates to a single value. A statement does not.

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

bacon = 22 \_bacon contain integer value bacon is a variable in this statement

bacon + 1 \_ this is expression

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?

Variable names cannot begin with a number

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

int() , float() , and str( )

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

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

The expression causes an error because 99 is an integer, and only strings can be concatenated to other strings with the + operator. The correct way is I have eaten ' + str(99) + ' burritos.'.