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.

\*

'hello'

-87.8

-

/

6

Answer: All of them are values

2. What is the difference between string and variable?

String a datatype which values such as name and city (ex: ajay,mumabi)

Variable can hold values of multiple datatype string,float,int extra

3. Describe three different data types.

String

Float

int

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

Expressions are made up of variable, operator and functions

A=2

B=’4’

C= a + int(b)

**Output: C=6**

C is a variable which hold the expression output

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

spam = 10

a= b + c is an expression

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

bacon = 22

bacon + 1

**Output b= 23**

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

'spam' + 'spamspam'

'spam' \* 3

**Output: ‘spamspamspam’**

**‘spamspamspam’**

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

There are some rules to define a variable.

A variable can be a , b or c.

Defining a variable as 1, 2 will create lot of issue while doing operations and variables cannot make use of keywords

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

Example: a=’123’

Int(a) -- Output = 123

Float(a) --- Output = 123.0

Str(a) --- Output = ‘123’

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

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

Error Reason: We are trying to add multiple datatype (str + integer)

We can fix it with the below syntax

'I have eaten ' + ‘99’ + ' burritos.'