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.

Sol :-

Valus:- ‘hello’, -87.8, 6

Exp:- - , / , +

2. What is the difference between string and variable?

Sol:- string is a data type which has value and variable is used to store the value or any data type value

String ex:- ‘abc’

Variable = a = ‘abc’

Variable is used to store data.

3. Describe three different data types.

Sol:- Int is a data type which has integer value. Ex:- 87,102

Str which is called as string has data of text type. Ex:- ‘hi’

Float which has decimal values. Ex:- 2.8

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

Sol:- It is a combination of operators and operands used to return some value.

5. This assignment statements, like spam = 10. What is the difference between an

expression and a statement?

Sol:- here spam =10 is a statement where we are assigning value 10 to spam variable. But expression is if we are using spam variable to get new value using in expression .

Ex:- spam = spam+10 ->this is expression

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

bacon = 22

bacon + 1

Sol:- 22

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

Sol: - eggs is a variable which is used to value. But 100 its self a value which cannot store other value.

9. What three functions can be used to get the integer, floating-point number, or string

version of a value?

Sol:- int(),float(),str()

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

‘I have eaten’ + 99 +’burritos’

Sol:- cannot concatenate two different data types.

We can do:- ‘I have eaten’ + ‘99’ +’burritos’