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.

Ans : \* -> expression

'hello' → Value

-87.8 –> Value

- -> expression

/ -> expression

* -> expression

6 –> Value

2. What is the difference between string and variable?

Ans: String are data . And it stands for reference type.

Variable are usefull to store data which will be decide based on type defined.

3. Describe three different data types.

Ans : Value Type: Int,float,double

Reference Type: string , object

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

Ans : It stands for combinantion of operators and Operands that will give us some value.

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

Ans : Expression helps to get the value but Statement is do something like “spam = 10” is complete a statement. 10 is a expression because its a value.

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

bacon = 22

bacon + 1

Ans : 23

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

'spam' + 'spamspam'

'spam' \* 3

Ans : spamspamspam

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

Egg defines as a name which can be assigned as variable but 10 is integer value.

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

Ans: int() , float(), str()

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

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

Ans : Error Cause :

The concatination is happening between string and integer values.

If we will make 99 integre as string format it will work

Code : 'I have eaten ' + ‘99’ + ' burritos.' → It will work.