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

*Ans. Values: ‘hello’ , -87.8, 6*

*Expressions: \* - / +*

2. What is the difference between string and variable?

*Ans. A variable is a place holder in a program.*

*String is type of a value or the information stored in a variable*

3. Describe three different data types.

*Ans. Integer: a whole number. Example: 8, 19, 2356, etc.*

*Float: a number with factors or decimal. Example: 7.23, 9.093, 265.0001 , etc.*

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

*Ans. An expression is a combination of variables, operators and values, which is defined to work in a function for a result*

*Example: x = 5\*9*

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

*Ans. An Expression is a combination of values, operators and call functions.*

*A statement is an instruction that a program interpret and can execute*

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?

*Ans. A variable can’t be an integer.*

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

*Ans. Integer: int()*

*floating-point number: float()*

*string: str()*

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

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

*Ans. Integer and strings together cannot be concatenated or sum*