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 : Expressions are “+, /, -, \*.”

Values are “ ‘hello’, 87.8 ” )

2. What is the difference between string and variable?

(Ans: string is a specific type of data (text) in programming, while a variable is a container that can hold different types of data)

3. Describe three different data types.

(Ans: Integer- These are whole number without any decimal points, Float- These are numbers with decimal points, String- It is a sequence of text characters)

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

(Ans: Expressions can evaluate values, perform assignments, compare values)

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 and operators that evaluates to a value (e.g 2 \* spam +5). A statement is like spam = 10)

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: Variable names should always start with text, it should not start with a numeric value.)

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

(Ans: A=int(‘20’), B=float(‘20.0’), C=str(20))

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

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

(Ans: 'I have eaten ' + str(99) + ' burritos.')