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.

\* Operator

'hello'-Value

-87.8-value

- Operator

/ Operator

* Operator

6 -value

2. What is the difference between string and variable?

Ans: A string is a data type that may be of a character, word or sentences. It is a major primitive data type. Strings are collection of sequence of characters

A variable is a meaningful name provided for the address of a memory location in the computer. A variable might contain values which will vary in a program execution.

3. Describe three different data types.

Ans: Integer-Whole numbers

Float-numbers with decimal points in real format.

String-Strings can be any character or word or sentence.

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

Ans: Expression is a line of code in a program that results in a value or result.

An expression consists of operators and Operands.

a=10, b=20

Eg: c=b+a

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

Ans: Expression: An expression is a line of code that evaluates to value or result.

Statement:A statement is any valid line of code in a program.

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

bacon = 22

bacon + 1

Ans: The value of variable bacon will be 22.

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

'spam' + 'spamspam'

'spam' \* 3

Ans:’spamspamspam’

’spamspamspam’

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

Ans: eggs a valid variable name while 100 is invalid because a variable nae should start with \_ or alphabets only.

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

1.int()

2.float()

3.str()

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

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

Ans: This expression causes an error because we are trying to concatenate integer with strings(type mismatch).It can be fixed by casting the Integer to a string.

'I have eaten ' + ‘99’ + ' burritos.'