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.

\* Expression

'hello' Value

-87.8 Value

- Experssion

/ Expression

* Expression

6 value

2. What is the difference between string and variable?

Variables are use to store data in a program and Strings are the data

(Ex: Name = ‘Hema’) Here name is the variable and ‘Hema is the string.

3. Describe three different data types.

1. **Integers :** In integers there are no decimal points available in the value.

Ex: 20

2.**Floats :** Floats are with decimal points available in the value

Ex: 20.23 or 20.00

3. **Strings :** Data comes with Single & double quotes those are strings.

Ex: ’Hema’ , “20“ & ’ 20.23’

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

Expressions are made with mathematical operations as like (+,-,/,\*..Etc)

+ will do sum the values

* Will do difference the values
* Will do multiple the values

/ Will do Divide the values

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

Ans: A statement in Python is used for creating variables or for displaying values. The expression in Python produces some value or result.

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

bacon = 22

bacon + 1

**Ans**: bacon contains the value is 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: In Python, the variable name can be start with Alphabets so eggs is a valid variable name and variable name should not be start with numeric value, 100 is invalid variable name.

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

A = int(20) - Output value as an Integer is 20

C = float(20) – Output value as a Float is 20.00

B = str(20) - Output value as a String is ‘20’

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

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

Ans: The expression cause an error due to 99 as integer and to make 99 as a String the code will run.

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