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**

- — **expression**

/ — **expression**

• — **expression**

6 — **value**

2. What is the difference between string and variable?

**Ans**.

String: String is the value inside the quotes assigned to string.

Variable: A variable is the name of the location of some values in primary memory in which you can store anything from string to integer

3. Describe three different data types.

**1. Text type : str**

**2. Number type: int, float, complex**

**3. Mapping type : Dict**

**4. Sequence Type : list, tuple, range**

**5. Set Type; set, frozenset**

**6. Boolean: bool**

**7. Binary type: bytes, bytearray, memory view**

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

Ans. Expression is a combination of operators, operands that all are interpreted to produce some another values

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

Ans: Expression is a combination of operators and operands that interpreted to produce some value

Statement is combination of Expression.

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'

Ans: ’spamspamspam’

'spam' \* 3

Ans: ’spamspamspam’

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

Ans : Variable cannot start with integer

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