1. What are the differences between operators and values in the following?

\* [Ans] :Multiple **Operator**

'hello' [Ans] String **value**

-87.8 [Ans] : negative float **value**

- [Ans] :Subtract **operator**

/ [Ans] : Divide **operator**

+ [Ans]: addition **operator**

6 [Ans] : positive integer **value**

2. What is the difference between string and variable?

Spam [Ans] : variable which used to hold the value

'spam' [Ans] : String value

3. Describe three different data forms.

[Ans] : a. **str** – represents for text value

b) **int,float** represents for integer and float value

c) **dict** used to store the key value pair , its mapping

4. What makes up an expression? What are the functions of all expressions?

[Ans] : expression is statement and it will do some operation (based on the operator) while executing

5. In this chapter, assignment statements such as spam = 10 were added. What's the difference between a declaration and an expression?

[Ans] spam variable is declare and expression is assigning value 10 to spam

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

bacon = 22

bacon + 1

[Ans] bacon = 22 . because new value not assigned backed to bacon

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

'spam' + 'spamspam' [Ans] 'spamspamspam ' . concatenate two string

'spam' \* 3 [Ans] 'spamspamspam '

8. Why is it that eggs is a true variable name but 100 is not?

[Ans] as per variable name rules, name should be start with letter or underscore

9. Which of the following three functions may be used to convert a value to an integer, a floating-point number, or a string?

[Ans] **int()** function used to convert the string value to int . string value should be valid value other wise we will get value error while convert

**float()** function used to convert the string value to float . string value should be valid value other wise we will get value error while convert

**str()** function used to convert the any value to string

10. What is the error caused by this expression? What would you do about it?

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

[Ans] python compiler will throw the error because Concatenate only string . we are trying concatenate with two string and one INTEGER value