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.

Ans:

\* - / + are mathematical operator

2. What is the difference between string and variable?

Ans: String is a sequence of character and variable is a name given to memory block, to access values of that particular memory block, in python variables are reference variables.

3. Describe three different data types.

Ans: numeric type: int,float,complex

Sequence Type: list,tuple,

Text Type: str

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

Ans: In programming expression is anything which ends up giving some output.

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

Ans: expression can be assignment or used as operands, while statement can only be declared

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

bacon = 22

bacon + 1

Ans: 22 only becoz new value is not being assigned to bacon

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

'spam' + 'spamspam'

'spam' \* 3

Ans: For both **spamspamspam**

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

And : Because Variable name can not be started with numerical value

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:

print("I have eaten" + "99" + "burritos" )

print("I have eaten ' + 99 + ' burritos.")