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(String)

-87.8==> Value(Integer)

- ==>Expression

/ ==> Expression

* ==> Expression

6 ==> Value(Integer)

2. What is the difference between string and variable?

String is a character or group of character inside single or double quote

3. Describe three different data types.

int

float

bool

complex

String

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

An expression is made up of operators and operands that is interpreted to produce some value.

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

Assignment statements initialize or change the value stored in a variable(Eg,Spam=10) using the assignment operator(=).

The expression can contain math operators and other variables on the right of the = sign is stored in the variable on the left.

In the above example spam=10 is statement used to store value **10** in variable **spam**.

10 is a value of expression.

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

bacon = 22

bacon=22

bacon + 1

bacon=23

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

'spam' + 'spamspam'

'spamspamspam'

'spam' \* 3

'spamspamspam'

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

eggs is a entity(variabe) to store data,we can store any values or strings to variable but 100 is a integer(In python 100 is treated as int-datatype)and we cannot store value in 100 because itself a value.

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

int()==>To get integer version of a value

float()==>To get floating-point number version of a value

str()==> To get string version of value

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

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

Concatenation of integer with string is not possible