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

6  --🡪value

2. What is the difference between string and variable?

Answer: variables are symbols that be used for store data or value. Whereas string are the value or data ,we can use to fill or store the string to variable space .

3. Describe three different data types.

string Type -🡪 str

Numeric Types -🡪 int,float,complex

Sequence Types -🡪 list ,tuple,range

Mapping Type -🡪 dict

Set Types -🡪 set, frozentype

Boolean type -🡪 bool

binarytype --🡪 byte,bytearray,memoryview

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

An expression is a construct made up of variables, operators, and method invocations, which are constructed according to the syntax of the language, that evaluates to a single value.

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

An expression evaluating to a single value .However statements are not

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

bacon = 22

bacon + 1

answer: 23

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

'spam' + 'spamspam'

'spam' \* 3

Answer: same

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

answer: variable name cannot be numeric number

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

answer: int(),float(),str()

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

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

answer: because 99 is a numeric vale we can’t concatenate with string .so its through a error type error .

we can make 99 as string -🡪 ‘I have eaten’ +’99’+’burritos’