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' (String)

-87.8 (value)

- (Expression)

/ (Expression)

+ (Expression)

6 (value)
```

2. What is the difference between string and variable?

Ans: In python string can be explain as it's a sequence of characters enclose in('', "", """) in this quotes for example: "ineuron", 'ineuron'

As on the other hand variables are that can hold data while a string is a type of data that can be stored in a variables. They can stored different types of data like strings, numbers, lits etc

```
For ex: a = "harshal"
```

3. Describe three different data types.

Ans: Integer(int): this data type represents whole numbers for exp: 5, -10

List: list is versatile data type use to store. List can contain different data types and they're mutable means you can change their elements. An example of a list: my_list = [1, 'apple', False, 0.65]

String: strings are sequences of characters composed in single , double, triple quotes. for ex: 'string' , "Data" etc.

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

Ans: An expression in python is made up of operands, variables, values combined with operators like +, *, /, - etc. it represents a computation that produces a value. expression

can be simple like 2/8, 4-2 etc or involving multiple operations and variables and all expression in python evaluate to a value this value could be a number, a string or another data type, depending on the operations and operands used within the expression itself.

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

Ans: An expression evaluate to single value but the statements does'nt.

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

bacon = 22

bacon + 1

Ans: bacon = 23

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

'spam' + 'spamspam'

'spam' * 3

Ans: 'spam' + 'spamspam' =spamspamspam, 'spam' * 3= spamspamspam

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

Ans: eggs = this correct because its starting with a variable.

100 = variable cannot start with numbers

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

Ans: int(), float(), str() will evaluate this functions as the value pass to them.

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

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

Ans: can only concatenate string (not integer) to string

the correct way is = (' I ' ' have ' ' eaten ' + str(99) + ' burritos. ')