Q1. Does assigning a value to a string's indexed character violate Python's string immutability?

**Ans: 'str' object does not support item assignment so it does’t violate**

Q2. Does using the += operator to concatenate strings violate Python's string immutability? Why or why not?

**Ans: Yes, if we concatenate the string it will include the new word into the existing word so the word will completely change so it will violate**

Q3. In Python, how many different ways are there to index a character?

**Ans: there is two different ways are there to index a character. One is positive and another one is Negative**

Q4. What is the relationship between indexing and slicing?

**Ans: the indexing means we are calling the value by position of string, Slicing means getting a subset of elements from list or string**

Q5. What is an indexed character's exact data type? What is the data form of a slicing-generated substring?

**Ans: string or object is indexed characters data type, the slicing form subset data or substring**

Q6. What is the relationship between string and character "types" in Python?

**Ans: The string is a meaningful word character is single alphabetical character**

Q7. Identify at least two operators and one method that allow you to combine one or more smaller strings to create a larger string.

**Ans: we can use Arithmetic + operator to concat the string, and we can use \* operator to multiplay the string Then the join method will be used to concat the string**

Q8. What is the benefit of first checking the target string with in or not in before using the index method to find a substring?

**Ans: we can check if the string is substring of another by comparing the two string, the benefit of first checking the target string with in or not in before using the index is we can use the original string instead of substrinf**

Q9. Which operators and built-in string methods produce simple Boolean (true/false) results?

**Ans: The assignment operators are produce the Boolean operator results, and the built-in string methods are isupper() ,islowe(), isalpha() are some methods that return Boolean results**