Python questions: (Class 2)

1. Difference between variable and constant? Create and import a constant, then print the values of constant
2. Convert a float to integer, then convert it to string. Convert a list into a set. Convert a string into a list
3. Add an integer/float with a string using type casting
4. Write a simple for loop to iterate through a string and break the iteration before the last iteration
5. Write a function to return the reminder of 2 numbers given through function arguments
6. Add a docstring to above function and print the same
7. Write a function with one and 2 default arguments and print the same.
8. Can a non-default arg follow a default argument? Can two default args be mixed while calling a function? If we mix a default argument and positional argument, what is the constraint?
9. Write a lambda function to add first to number, then divide the sum by third number.
10. Create a list of first 20 numbers using a range function, then use a filter function to output the odd numbers
11. Create a list of 5 numbers and use a lambda function to square each number in a list
12. Use the ‘global’ keyword to modify a global variable of value ‘5’, then square it and print the output
13. Perform list concatenation of 2 lists, then add one element in the beginning of the concatenated list and add 2 elements before the last element of the list
14. Create a list 0 to 10 and remove all even numbers using ‘remove’ method (Use ‘for’ and ‘if)
15. Remove first 5 elements in a list of numbers 10 to 20 using list comprehension
16. If x = [‘Python ’, ‘R ’] and y = [‘Language’, ‘Programming], using list comprehension print the following: ['Python Language', 'Python Programming', 'R Language', 'R Programming']
17. Create a tuple (of 3 elements) without parenthesis and unpack each element. Also create a tuple with just one value in it
18. Is there a way to change the elements of a tuple? Code an example
19. Using escape sequence, print the following: What’s up, guys! How’s it going?
20. Can we use insert method in a set to modify? Explain why?