

lesson 3

1. Write a Python function to sum all the numbers in a list. (4 different ways)

Sample List : (8, 2, 3, 0, 7)

Expected Output : 20

2. Write a Python function to check whether a number falls within a given range.

3. Write a Python function that accepts a string and counts the number of upper and lower case letters.

Sample String : 'The quick Brow Fox'

Expected Output :

No. of Upper case characters : 3

No. of Lower case Characters : 12

4. Write a Python program to print the even numbers from a given list.

Sample List : [1, 2, 3, 4, 5, 6, 7, 8, 9]

Expected Result : [2, 4, 6, 8]

5. Write a Python function that checks whether a passed string is a palindrome or not.

Note: A palindrome is a word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run.

6. Write a Python program to sort a list of dictionaries using Lambda and sorted() function

Original list of dictionaries :

```
[{'make': 'Nokia', 'model': 216, 'color': 'Black'}, {'make': 'Mi Max', 'model': '2', 'color': 'Gold'}, {'make': 'Samsung', 'model': 7, 'color': 'Blue'}]
```

Sorting the List of dictionaries :

```
[{'make': 'Nokia', 'model': 216, 'color': 'Black'}, {'make': 'Samsung', 'model': 7, 'color': 'Blue'}, {'make': 'Mi Max', 'model': '2', 'color': 'Gold'}]
```

7. Write a Python program to generate 26 text files named A.txt, B.txt, and so on up to Z.txt with the letter in the contents of the file.

8. Write a Python program to copy the contents of a file to another file.