# Task - 8

```
# 1. Script to merge two dictionaries

def Merge(dict1, dict2):
    res = dict1 | dict2
    return res

dict1 = {"China": "Beijing", "England": "London"}

dict2 = {"India": "Delhi", "Japan": "Tokyo"}

dict3 = Merge(dict1, dict2)

print("merge two dictionaries - ", dict3)
```

## output:-

```
merge two dictionaries -
{'China': 'Beijing', 'England': 'London', 'India': 'Delhi', 'Japan': 'Tokyo'}
```

```
# 2. Sort the value in ascending
numbers = [1, 4, 7, 9]
numbers.sort()
print("sorting list in ascending - ", numbers)

# Sort the value in descending
numbers.sort(reverse=True)
print("sorting list in descending - ", numbers)

# convert list into set
my_set = set(numbers)
print("converted list into set - ", my_set,type(my_set))
```

## output:-

```
sorting list in ascending - [1, 4, 7, 9] sorting list in descending - [9, 7, 4, 1] converted list into set - {9, 4, 1, 7} <class 'set'>
```

# 3. Write a Python program to list number of items in a dictionary key and sort the list with the help of a function & without the function.

my\_dict = {12: 'abc', 6: 'hello', 10: 'world'}

```
A = list(my_dict.keys())
print(A)

# with function

def sorting(n):
    for i in range(len(n)):
        if (n[i] > n[j]):
            temp = n[i]
            n[i] = n[j]
            n[ij] = temp
    print(n,"with using function")

sorting(A)

# without function
A.sort()
print(A,"with out using function")
```

#### output:-

```
[12, 6, 10]
[6, 10, 12] with using function
[6, 10, 12] with out using function
```

```
# 4. Write a Python program to get a string from a given string (user input) and change the first occurrence of the word to a user specified input.

my_str = input("Enter string :")

my_word = input("Enter the word you want to change : ")

change_word = input("Enter the word to replace with above word's first occurrence :
")

new_str = my_str.replace(my_word, change_word, 1)

print("After replacing first occurrence : ", new_str)

output : -

Enter string :hi world

Enter the word you want to change : hi

Enter the word to replace with above word's first occurrence : hello

After replacing first occurrence : hello world
```

```
# 5. Write a Python program to get a string from a given string where all occurrences of its first char have been changed to capital letter.

my_str = input("Enter string :")
```

```
my_word = input("Enter word whose first char you want to capitalize:")
new_word = my_word.capitalize()
new_str = my_str.replace(my_word, new_word)
print(new_str)
```

output : -

Enter string :thirty days thirty hour coding challenge Enter word whose first char you want to capitalize :thirty Thirty days Thirty hour coding challenge

```
# 6. Write a Python program to find the repeated items of a list.

I = [1, 2, 3, 4, 5, 6, 1, 2, 7, 9, 8, 4]

I1 = []

for i in I:

    if i not in I1:

        I1.append(i)
    else:
        print(i, end=' ')
```

# output:-

# 124

```
# 7. Write a Python program to check the sum of three elements and divided by a value which is given as an input by the user a = int(input("Enter 1st element:"))
b = int(input("Enter 2nd element:"))
c = int(input("Enter 3rd element:"))
print("Sum of the three element: ",a+b+c)
d = int(input("Enter value by which you want to divide above sum:"))
print("Answer after divide a sum: ",(a+b+c)/d)
```

## output : -

```
Enter 1st element: 5
Enter 2nd element: 8
Enter 3rd element: 15
Sum of the three element: 28
Enter value by which you want to divide above sum: 4
Answer after divide a sum: 7.0
```

```
# 8. Write a Python program to find the Mean,median,mode among three given numbers
numbers = [14,21,15,6,10,21,7]
import statistics
my_mean = statistics.mean(numbers)
print("Mean : ",my_mean)

my_median = statistics.median(numbers)
print("Median : ",my_median)

my_mode = statistics.mode(numbers)
print("Mode : ",my_mode)
output : -
```

Mean : 13.428571428571429

Median: 14 Mode: 21

```
# 9. Write a Python program to swap cases of a given string

def swap_case_string(str1):
    result_str = ""
    for item in str1:
        if item.isupper():
            result_str += item.lower()
        else:
            result_str += item.upper()
    return result_str

print(swap_case_string("heLLo woRLd"))
```

## output : -

# HEllo World

```
# 10. Write a program to convert an integer to binary & octa decimal dec = 123 print("The decimal value of", dec, "is:") print(bin(dec), "in binary.") print(oct(dec), "in octal.")
```

# output : -

```
The decimal value of 123 is:
0b1111011 in binary.
0o173 in octal.
```