In [ ]:

```
#DAY 8
```

1.Write a Python script to merge two Python dictionaries

In [ ]:

```
a1={"a":"apple","b":"ball"}
a2={"c":"cat","d":"dog"}
print(a1,type(a1))
print(a2,type(a1))
```

```
{'a': 'apple', 'b': 'ball'} <class 'dict'>
{'c': 'cat', 'd': 'dog'} <class 'dict'>
```

In [ ]:

```
a1.update(a2)
print(a1)
```

```
{'a': 'apple', 'b': 'ball', 'c': 'cat', 'd': 'dog'}
```

1. **Write a program to sort the value from descending to ascending in list and convert it in to a set.**

In [ ]:

```
b=[1,2,4,53,8,10,6,7,100,95]
b.sort()
```

In [ ]:

```
b
```

Out[ ]:

```
[1, 2, 4, 6, 7, 8, 10, 53, 95, 100]
```

In [ ]:

```
b.sort(reverse=True)
```

In [ ]:

```
print(b)
type(b)
```

```
[100, 95, 53, 10, 8, 7, 6, 4, 2, 1]
```

Out[ ]:

```
list
```

In [ ]:

```
c=set(b)
```

In [ ]:

```
print(c)
type(c)
```

```
{1, 2, 100, 4, 6, 7, 8, 10, 53, 95}
```

Out[ ]:

```
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.

In [ ]:

```
day = { 'one' : 'Monday' ,  'six' : 'Saturday' ,'three' : 'Wednesday' ,  'two' : 'Tuesda
y' , 'five': 'Friday' ,  'seven': 'Sunday' ,'four':'Thursday'}
print(day)
```

```
{'one': 'Monday', 'six': 'Saturday', 'three': 'Wednesday', 'two': 'Tuesday', 'five': 'Fri
day', 'seven': 'Sunday', 'four': 'Thursday'}
```

In [ ]:

```
print(len(day.keys()))    # Displaying the length of the keys
```

```
7
```

In [ ]:

```
print(sorted(day.items()),end='')   # printing the sorted value by items
```

```
[('five', 'Friday'), ('four', 'Thursday'), ('one', 'Monday'), ('seven', 'Sunday'), ('six'
, 'Saturday'), ('three', 'Wednesday'), ('two', 'Tuesday')]
```

In [ ]:

```
for i in sorted(day.keys()):        # printing the sorted value by key
 print(i)
```

```
five
four
one
seven
six
three
two
```

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.

In [ ]:

```
str1="Java is the Popular language"
user=str(input("Enter the name"))
str1.replace("Java",user,1)
```

```
Enter the namePython
```

Out[ ]:

```
'Python is the Popular language'
```

In [ ]:

```

```

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.

In [10]:

```
a="python is a used for data science"
b="python has got many libraries"
print(a.capitalize()+ " , " +b.capitalize())
```

```
Python is a used for data science , Python has got many libraries
```

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

In [24]:

```
a=[1,1,2,2,3,3,4,5,6,7,8,9,0,0]
b=[]
for i in a:
  if a.count(i)>1:
    if i not in b:
       b.append(i)
print(b)
```

```
[1, 2, 3, 0]
```

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

In [29]:

```
a=int(input("Enter number :"))
b=int(input("Enter number :"))
c=int(input("Enter number :"))
sum1=a+b+c
print(sum1)
user=int(input("Enter the number to divide sum!"))
if sum1% user==0:
    print("The given input divide the sum",user)
else :
    print("The given input does not divide sum",user)
```

```
Enter number :10
Enter number :2
Enter number :8
20
Enter the number to divide sum!2
The given input divide the sum 2
```

8.Write a Python program to find the Mean,median,mode among three given numbers

In [51]:

```
n=[1,2,3,1,2,3,4,5,5,5]
import statistics
print(statistics.mean(n))
print(statistics.median(n))
print(statistics.mode(n))
```

```
3.1
3.0
5
```

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

In [53]:

```
a=input("enter the text1 ")
b=input("entern the text2 ")
print(a," ",b)
a,b=b,a
print("reversed element of a is ",a)
print("reversed element of b is ",b)
print(a,b)
```

```
enter the text1 Hello
entern the text2 World
Hello   World
reversed element of a is  World
reversed element of b is  Hello
World Hello
```

10.Write a program to convert an integer to binary & octa decimal

In [75]:

```
a1=33
print("Binary Value : ",bin(a1))
print("Octa Value : ",oct(a1))
```

```
Binary Value :  0b100001
Octa Value :  0o41
```