

```
In [1]: 1 #Add rollno and marks {name:mark} for n number of students through keyboard
2 import operator
3 n=int(input("Enter no of records"))
4 d={}
5 for i in range(1,n+1):
6     name= input("Enter name %d"%(i))
7     mark=int(input("Enter mark %d"%(i)))
8     d[name]=mark
9     print(d)
10 sorted_a= sorted(d.items(), key=operator.itemgetter(0),reverse=True)
11 print(sorted_a)
```

```
Enter no of records2
Enter name 1Nachi
Enter mark 1100
{'Nachi': 100}
Enter name 2Pranav
Enter mark 2100
{'Nachi': 100, 'Pranav': 100}
[('Pranav', 100), ('Nachi', 100)]
```

```
In [3]: 1 #Add name and salary {name:salary} for n number of employees through keyboar
2
3 import operator
4 n=int(input("Enter no of records"))
5 d={}
6 for i in range(1,n+1):
7     name= input("Enter name %d"%(i))
8     mark=int(input("Enter salary %d"%(i)))
9     d[name]=mark
10    print(d)
11 sorted_a= sorted(d.items(), key=operator.itemgetter(0),reverse=False)
12 print(sorted_a)
```

```
Enter no of records2
Enter name 1Nachi
Enter salary 1500000
{'Nachi': 500000}
Enter name 2Pranav
Enter salary 2500000
{'Nachi': 500000, 'Pranav': 500000}
[('Nachi', 500000), ('Pranav', 500000)]
```

```
In [4]: 1 #Add name and salary {name:salary} for n number of employees through keyboar
2
3 import operator
4 n=int(input("Enter no of records"))
5 d={}
6 for i in range(1,n+1):
7     name= input("Enter name %d"%(i))
8     mark=int(input("Enter salary %d"%(i)))
9     d[name]=mark
10    print(d)
11 sorted_a= sorted(d.items(), key=operator.itemgetter(1),reverse=False)
12 print(sorted_a)
13 print("max=%d"%sum(d.values()))
14 print("max=%d"%max(d.values()))
15 print("min=%d"%min(d.values()))
16 print("avg=%d"%(sum(d.values())/2))
```

```
Enter no of records2
Enter name 1Nachi
Enter salary 1500000
{'Nachi': 500000}
Enter name 2Pranav
Enter salary 2500000
{'Nachi': 500000, 'Pranav': 500000}
[('Nachi', 500000), ('Pranav', 500000)]
max=1000000
max=500000
min=500000
avg=500000
```

```
In [5]: 1 #Add name and salary {name:salary} for n number of employees through keyboar
2 import operator
3 n=int(input("Enter no of records"))
4 d={}
5 for i in range(1,n+1):
6     name= input("Enter name %d"%(i))
7     sal=int(input("Enter salary %d"%(i)))
8     if (sal >2000 and sal< 4000):
9         d[name]=sal
10    print(d)
```

```
Enter no of records2
Enter name 1Nachi
Enter salary 1500000
Enter name 2Pranv
Enter salary 2500000
{}
```

In [7]:

```

1  #Python program to convert a 3 digit number into words
2  def convert_to_words(num):
3      l = len(num);
4      if (l == 0):
5          print("empty string");
6          return;
7
8      if (l > 4):
9          print("Length more than 4 is not supported");
10         return;
11     single_digits = ["zero", "one", "two", "three",
12                     "four", "five", "six", "seven",
13                     "eight", "nine"];
14     two_digits = ["", "ten", "eleven", "twelve",
15                  "thirteen", "fourteen", "fifteen",
16                  "sixteen", "seventeen", "eighteen",
17                  "nineteen"];
18     tens_multiple = ["", "", "twenty", "thirty", "forty",
19                     "fifty", "sixty", "seventy", "eighty",
20                     "ninety"];
21     tens_power = ["hundred", "thousand"];
22     print(num, ":", end = " ");
23     if (l == 1):
24         print(single_digits[ord(num[0]) - '0']);
25         return;
26     x = 0;
27     while (x < len(num)):
28         if (l >= 3):
29             if (ord(num[x]) - 48 != 0):
30                 print(single_digits[ord(num[x]) - 48],
31                       end = " ");
32                 print(tens_power[l - 3], end = " ");
33
34             l -= 1;
35         else:
36             if (ord(num[x]) - 48 == 1):
37                 sum = (ord(num[x]) - 48 +
38                       ord(num[x + 1]) - 48);
39                 print(two_digits[sum]);
40                 return;
41             elif (ord(num[x]) - 48 == 2 and
42                   ord(num[x + 1]) - 48 == 0):
43                 print("twenty");
44                 return;
45             else:
46                 i = ord(num[x]) - 48;
47                 if(i > 0):
48                     print(tens_multiple[i], end = " ");
49                 else:
50                     print("", end = "");
51                 x += 1;
52                 if(ord(num[x]) - 48 != 0):
53                     print(single_digits[ord(num[x]) - 48]);
54                 x += 1;
55     convert_to_words("523");
56     convert_to_words("898");

```

523 : five hundred twenty three
898 : eight hundred ninety eight

```
In [11]: 1 #python Program to count the total number of charaters (except blank space)
2 input_file = input("Enter File name : ")
3 file_txt = open(input_file)
4 text = file_txt.read()
5 charc = 0
6 for i in text:
7     if(i != " " and i != "\n" ):
8         charc += 1
9
10 print ("total num of characters: ",charc);
```

Enter File name : Day1_Assignment1_Exercise1.ipynb
total num of characters: 1553

```
In [12]: 1 #ython Program to print all the numbers present in a text file with its tota
2 input_file = input("Enter File name : ")
3 file_txt = open(input_file)
4 text = file_txt.read()
5 w = []
6 d = dict()
7 for line in text:
8     line = line.strip()
9     if(line.isdigit()):
10         w.append(line)
11 for j in w:
12     if j in d:
13         d[j] = d[j] + 1
14     else:
15         d[j] = 1
16 for key in list(d.keys()):
17     print(key, ":", d[key])
```

Enter File name : Day1_Assignment1_Exercise1.ipynb
1 : 7
4 : 7
0 : 11
2 : 9
9 : 1
5 : 1
3 : 7
8 : 1

In [13]:

```
1  #Python Program to append the contents of one file to another file by gettin
2
3  name1 = input("Enter file to be read from: ")
4  name2 = input("Enter file to be appended to: ")
5  fin = open(name1, "r")
6  data2 = fin.read()
7  fin.close()
8  fout = open(name2, "a")
9  fout.write(data2)
10 fout.close()
11
```

Enter file to be read from: Day1_Assignment1_Exercise1.ipynb
Enter file to be appended to: Day1_Session2_Exercise2.ipynb

In [14]:

```
1  #Python Program to count the number of blank spaces in a text file.
2  fname = input("Enter file name: ")
3  k = 0
4
5  with open(fname, 'r') as f:
6      for line in f:
7          words = line.split()
8          for i in words:
9              for letter in i:
10                 if(letter.isspace()):
11                     k=k+1
12 print("Occurrences of blank spaces:")
13 print(k)
```

Enter file name: Day1_Assignment1_Exercise1.ipynb
Occurrences of blank spaces:
1553

```
In [15]: 1  #Python Program to read a file and capitalize the first letter of every word
2
3  fname = input("Enter file name: ")
4  with open(fname, 'r') as f:
5      with open("out.txt", "w") as f1:
6          for line in f:
7              l=line.title()
8              f1.write(l)
9  file2=open("out.txt",'r')
10 line=file2.readline()
11 while(line!=""):
12     print(line)
13     line=file2.readline()
14 file2.close()
```

Enter file name: Day1_Assignment1_Exercise1.ipynb

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In []:

1