

In [7]:

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

```
Enter no of records2
Enter name 1vinod
Enter mark 1100
{'vinod': 100}
Enter name 2vin
Enter mark 21000
{'vinod': 100, 'vin': 1000}
[('vinod', 100), ('vin', 1000)]
```

In [8]:

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

```
Enter no of records2
Enter name 1vin
Enter salary 11000
{'vin': 1000}
Enter name 2vi
Enter salary 2100
{'vin': 1000, 'vi': 100}
[('vi', 100), ('vin', 1000)]
```

In [10]:

```

1  #Add name and salary {name:salary} for n number of employees through keyboard in a dict
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 1vin
Enter salary 112548
{'vin': 12548}
Enter name 2vino
Enter salary 2118
{'vin': 12548, 'vino': 118}
[('vino', 118), ('vin', 12548)]
max=12666
max=12548
min=118
avg=6333

```

In [12]:

```

1  #Add name and salary {name:salary} for n number of employees through keyboard in a dict
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      sal=int(input("Enter salary %d"%(i)))
9      if (sal >2000 and sal< 4000):
10         d[name]=sal
11     print(d)

```

```

Enter no of records2
Enter name 1vvgh
Enter salary 153242
Enter name 2kbhjb
Enter salary 2353
{}

```

In [13]:

```

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

```

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

In [16]:

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

Enter File name : Untitled7.ipynb
total num of characters: 6954

In [17]:

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

Enter File name : Untitled7.ipynb

7 : 1
2 : 37
1 : 178
0 : 300
8 : 25
5 : 13
4 : 25
6 : 8
3 : 74
9 : 3

In [18]:

```
1  #Python Program to append the contents of one file to another file by getting the both
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()
```

Enter file to be read from: Untitled7.ipynb

Enter file to be appended to: Untitled8.ipynb

In [19]:

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

Enter file name: Untitled7.ipynb

Occurrences of blank spaces:

7230

