In [1]:

```
#1.Add rollno and marks {name:mark} for n number of students through keyboard in a dict


import operator
n=int(input("Enter no of records"))
d={}
for i in range(1,n+1):
    name= input("Enter name %d-" %(i))
    mark=int(input("Enter mark %d-" %(i)))
    d[name]=mark
    print(d)
sorted_a= sorted(d.items(), key=operator.itemgetter(0),reverse=True)
print(sorted_a)
```

```
Enter no of records2
Enter name 1-vinod
Enter mark 1-30
{'vinod': 30}
Enter name 2-vinod baste
Enter mark 2-25
{'vinod': 30, 'vinod baste': 25}
[('vinod baste', 25), ('vinod', 30)]
```

In [3]:

```
#2.Add name and salary {name:salary} for n number of employees through keyboard in a di


import operator
n=int(input("Enter no of records"))
d={}
for i in range(1,n+1):
    name= input("Enter name %d-"%(i))
    mark=int(input("Enter salary %d-"%(i)))
    d[name]=mark
    print(d)
sorted_a= sorted(d.items(), key=operator.itemgetter(0),reverse=False)
print(sorted_a)
```

```
Enter no of records2
Enter name 1-bastevinod
Enter salary 1-10000
{'bastevinod': 10000}
Enter name 2-vinod
Enter salary 2-15000
{'bastevinod': 10000, 'vinod': 15000}
[('bastevinod', 10000), ('vinod', 15000)]
```

In [21]:

```
#3.Add name and salary {name:salary} for n number of employees through keyboard in a di

import operator
n=int(input("Enter no of records"))
d={}
for i in range(1,n+1):
    name= input("Enter name %d"%(i))
    mark=int(input("Enter salary %d"%(i)))
    d[name]=mark
    print(d)
sorted_a= sorted(d.items(), key=operator.itemgetter(1),reverse=False)
print(sorted_a)
print("sum=%d"%sum(d.values()))
print("max=%d"%max(d.values()))
print("min=%d"%min(d.values()))
print("avg=%d"%(sum(d.values())/2))
```

```
Enter no of records2
Enter name 1vinod
Enter salary 11000
{'vinod': 1000}
Enter name 2vino
Enter salary 22000
{'vinod': 1000, 'vino': 2000}
[('vinod', 1000), ('vino', 2000)]
sum=3000
max=2000
min=1000
avg=1500
```

In [12]:

```
#4.Add name and salary {name:salary} for n number of employees through keyboard in a di

import operator
n=int(input("Enter no of records"))
d={}
for i in range(1,n+1):
    name= input("Enter name %d"%(i))
    sal=int(input("Enter salary %d"%(i)))
    if (sal >2000 and sal< 4000):
       d[name]=sal
print(d)
```

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

In [13]:

```
#5.Python program to convert a 3 digit number into words

def convert_to_words(num):
    l = len(num);
    if (l == 0):
        print("empty string");
        return;

    if (l > 4):
        print("Length more than 4 is not supported");
        return;
    single_digits = ["zero", "one", "two", "three",
                     "four", "five", "six", "seven",
                     "eight", "nine"];
    two_digits = ["", "ten", "eleven", "twelve",
                  "thirteen", "fourteen", "fifteen",
                  "sixteen", "seventeen", "eighteen",
                  "nineteen"];
    tens_multiple = ["", "", "twenty", "thirty", "forty",
                     "fifty", "sixty", "seventy", "eighty",
                     "ninety"];
    tens_power = ["hundred", "thousand"];
    print(num, ":", end = " ");
    if (l == 1):
        print(single_digits[ord(num[0]) - '0']);
        return;
    x = 0;
    while (x < len(num)):
        if (l >= 3):
            if (ord(num[x]) - 48 != 0):
                print(single_digits[ord(num[x]) - 48],
                                            end = " ");
                print(tens_power[l - 3], end = " ");

            l -= 1;
        else:
            if (ord(num[x]) - 48 == 1):
                sum = (ord(num[x]) - 48 +
                       ord(num[x]) - 48);
                print(two_digits[sum]);
                return;
            elif (ord(num[x]) - 48 == 2 and
                  ord(num[x + 1]) - 48 == 0):
                print("twenty");
                return;
            else:
                i = ord(num[x]) - 48;
                if(i > 0):
                    print(tens_multiple[i], end = " ");
                else:
                    print("", end = "");
                x += 1;
                if(ord(num[x]) - 48 != 0):
                    print(single_digits[ord(num[x]) - 48]);
        x += 1;
convert_to_words("523");
convert_to_words("898");
```

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

In [16]:

```python
#1.python Program to count the total number of charaters (except blank space) in a text

input_file = input("Enter File name : ")
file_txt = open(input_file)
text = file_txt.read()
charc = 0
for i in text:
    if(i != " " and i != "\n" ):
         charc += 1

print ("total num of characters: ",charc);
```

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

In [17]:

```python
#2.Python Program to print all the numbers present in a text file with its total number

input_file = input("Enter File name : ")
file_txt = open(input_file)
text = file_txt.read()
w = []
d = dict()
for line in text:
    line = line.strip()
    if(line.isdigit()):
           w.append(line)
for j in w:
      if j in d:
        d[j] = d[j] + 1
      else:
           d[j] = 1
for key in list(d.keys()):
    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]:

```
#3.Python Program to append the contents of one file to another file by getting the bot

name1 = input("Enter file to be read from: ")
name2 = input("Enter file to be appended to: ")
fin = open(name1, "r")
data2 = fin.read()
fin.close()
fout = open(name2, "a")
fout.write(data2)
fout.close()
```

```
Enter file to be read from: Untitled7.ipynb
Enter file to be appended to: Untitled8.ipynb
```

In [19]:

```
#4.Python Program to count the number of blank spaces in a text file.


fname = input("Enter file name: ")
k = 0

with open(fname, 'r') as f:
    for line in f:
        words = line.split()
        for i in words:
            for letter in i:
                if(letter.isspace):
                    k=k+1
print("Occurrences of blank spaces:")
print(k)
```

```
Enter file name: Untitled7.ipynb
Occurrences of blank spaces:
7230
```

In [20]:

```
#5.Python Program to read a file and capitalize the first letter of every word in the f

fname = input("Enter file name: ")
with open(fname, 'r') as f:
  with open("out.txt", "w") as f1:
    for line in f:
        l=line.title()
        f1.write(l)
file2=open("out.txt",'r')
line=file2.readline()
while(line!=""):
    print(line)
    line=file2.readline()
file2.close()
```

```
Enter file name: Untitled7.ipynb
{

 "Cells": [

  {

   "Cell_Type": "Code",

   "Execution_Count": 7,

   "Metadata": {},

   "Outputs": [

    {

     "Name": "Stdout",
```

In [ ]:

```

```