In [1]:
```
#Add rollno and marks {name:mark} for n number of students through keyboard
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 1Nachi
Enter mark 1100
{'Nachi': 100}
Enter name 2Pranav
Enter mark 2100
{'Nachi': 100, 'Pranav': 100}
[('Pranav', 100), ('Nachi', 100)]
```

In [3]:
```
#Add name and salary {name:salary} for n number of employees through keyboar

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 1Nachi
Enter salary 1500000
{'Nachi': 500000}
Enter name 2Pranav
Enter salary 2500000
{'Nachi': 500000, 'Pranav': 500000}
[('Nachi', 500000), ('Pranav', 500000)]
```

In [16]:
```
#Add name and salary {name:salary} for n number of employees through keyboar

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 1Nachi
Enter salary 1500000
{'Nachi': 500000}
Enter name 2Pranav
Enter salary 2500000
{'Nachi': 500000, 'Pranav': 500000}
[('Nachi', 500000), ('Pranav', 500000)]
sum=1000000
max=500000
min=500000
avg=500000
```

In [5]:
```
#Add name and salary {name:salary} for n number of employees through keyboar
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 1Nachi
Enter salary 1500000
Enter name 2Pranv
Enter salary 2500000
{}
```

In [7]:

```
#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 [11]:

```python
#python Program to count the total number of charaters (except blank space)
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 : Day1_Assignment1_Exercise1.ipynb
total num of characters:  1553
```

In [12]:

```python
#ython Program to print all the numbers present in a text file with its tota
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 : Day1_Assignment1_Exercise1.ipynb
1 : 7
4 : 7
0 : 11
2 : 9
9 : 1
5 : 1
3 : 7
8 : 1
```

In [13]:
```
#Python Program to append the contents of one file to another file by gettin

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: Day1_Assignment1_Exercise1.ipynb
Enter file to be appended to: Day1_Session2_Exercise2.ipynb
```

In [14]:
```
#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: Day1_Assignment1_Exercise1.ipynb
Occurrences of blank spaces:
1553
```

In [15]:
```
#Python Program to read a file and capitalize the first letter of every word

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: Day1_Assignment1_Exercise1.ipynb
{

 "Cells": [

  {

   "Cell_Type": "Code",

   "Execution_Count": 14,

   "Metadata": {},

   "Outputs": [

    {

     "Name": "Stdout",
```

In [ ]:
```
1
```