## **DICTIONARY**

Enter salary 398653

{'Pranav': 65000, 'Nachi': 45872, 'Ravi': 98653}

[('Nachi', 45872), ('Pranav', 65000), ('Ravi', 98653)]

```
In [2]:
         HAdd rollno and marks {name:mark} for n number of students through keyboard in a did
            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 records4
            Enter name 1Pranav
            Enter mark 198
            {'Pranav': 98}
            Enter name 2Nachi
            Enter mark 299
            {'Pranav': 98, 'Nachi': 99}
            Enter name 3Ravi
            Enter mark 3100
            {'Pranav': 98, 'Nachi': 99, 'Ravi': 100}
            Enter name 4Vinod
            Enter mark 496
            {'Pranav': 98, 'Nachi': 99, 'Ravi': 100, 'Vinod': 96}
            [('Vinod', 96), ('Ravi', 100), ('Pranav', 98), ('Nachi', 99)]
```

## Add name and salary {name:salary} for n number of employees through keyboard in a dictionary and print them in name alphabetical order with salary

```
In [3]:
         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(∅),reverse=False)
            print(sorted_a)
            Enter no of records3
            Enter name 1Pranav
            Enter salary 165000
            {'Pranav': 65000}
            Enter name 2Nachi
            Enter salary 245872
            {'Pranav': 65000, 'Nachi': 45872}
            Enter name 3Ravi
```

```
▶ #Add name and salary {name:salary} for n number of employees through keyboard in a d
In [4]:
            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("max=%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 records3
            Enter name 1Pranav
            Enter salary 152000
            {'Pranav': 52000}
            Enter name 2Vinod
            Enter salary 256321
            {'Pranav': 52000, 'Vinod': 56321}
            Enter name 3Nachi
            Enter salary 355000
            {'Pranav': 52000, 'Vinod': 56321, 'Nachi': 55000}
            [('Pranav', 52000), ('Nachi', 55000), ('Vinod', 56321)]
            max = 163321
            max=56321
            min=52000
            avg=81660
         | #Add name and salary {name:salary} for n number of employees through keyboard in a d
In [7]:
            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):</pre>
                   d[name]=sal
            print(d)
            4
            Enter no of records2
            Enter name 1Pranav
            Enter salary 12513
            Enter name 2Nachi
            Enter salary 21254
            {'Pranav': 2513}
```

```
In [8]:
       ▶ #Python program to convert a 3 digit number into words
           def convert_to_words(num):
               1 = len(num);
               if (1 == 0):
                  print("empty string");
                  return;
              if (1 > 4):
                  print("Length more than 4 is not supported");
              "nineteen"];
              "ninety"];
               tens_power = ["hundred", "thousand"];
               print(num, ":", end = " ");
               if (1 == 1):
                  print(single_digits[ord(num[0]) - '0']);
               x = 0;
               while (x < len(num)):</pre>
                  if (1 >= 3):
                      if (ord(num[x]) - 48 != 0):
                          print(single_digits[ord(num[x]) - 48],
                                                   end = " ");
                          print(tens power[1 - 3], end = " ");
                      1 -= 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 = " ");
                             print("", end = "");
                          x += 1;
                          if(ord(num[x]) - 48 != 0):
                             print(single_digits[ord(num[x]) - 48]);
                  x += 1;
           convert_to_words("221");
           convert_to_words("159");
```

221 : two hundred twenty one
159 : one hundred fifty nine

```
▶ #Python Program to count the total number of charaters (except blank space) in a tex
 In [9]:
             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 : test.py
             total num of characters: 19
In [11]:
          Hypthon 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
                         d[j] = 1
             for key in list(d.keys()):
                 print(key, ":", d[key])
             Enter File name : test.py
             9:1
             8:2
             7:3
             6:2
             3:1
             1:2
             2:2
             5:3
             4:3
In [12]:
          ▶ #Python Program to append the contents of one file to another file by getting the bo
             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: test.py
             Enter file to be appended to: pk.txt
```

```
▶ #Python Program to count the number of blank spaces in a text file.
In [13]:
             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: test.py
             Occurrences of blank spaces:
             38
In [14]:
          ▶ #Python Program to read a file and capitalize the first letter of every word in the
             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(1)
             file2=open("out.txt",'r')
             line=file2.readline()
             while(line!=""):
                 print(line)
                 line=file2.readline()
             file2.close()
             Enter file name: test.py
             Print("Hello World")
             9876312154855426477
```