|  |  |
| --- | --- |
| dict1 = {'Name': 'Zara', 'Age': 7, 'Class': 'First'}  print ("dict1['Age']: ", dict1['Age'])  dict1['Age'] = 8;  dict1['School'] = "DPS School";  print ("dict1['School']: ", dict1['School'])  del dict1['Name']  dict1.clear();  del dict1 | s = {1: 'True', False: 0}  print(all(s))  s = {}  print(all(s))  # 0 is False  # '0' is True  s = {'0': 'True'}  print(all(s)) |
| # 0 is False  d = {0: 'False'}  print(any(d))  # 1 is True  d = {0: 'False', 1: 'True'}  print(any(d))  # 0 and False are false  d = {0: 'False', False: 0}  print(any(d))  # iterable is empty  d = {}  print(any(d))  # '0' is True  d = {'0': 'False'}  print(any(d)) | my\_dic={'x':500,'y':5874,'z':560}  key\_max=max(my\_dic.keys(),key=(lambda k:my\_dic[k]))  print(my\_dic[key\_max])  my\_dict = {'data1':100,'data2':-54,'data3':247}  print(sum(my\_dict.values())) |

**Dictionary Program**

#Creating Dictionary

D1={}

D2={'Dept':'IT','Year':2001}

D1['Name']='Dr.SACOE'

D1['Year']=1999

#Dictionary Comprehension

dict1={x:x\*\*3 for x in range(10) if x%2==1}

#Looping Dictionary

>>>D2={'Dept':'IT','Year':2001}

>>> for k in D2: # Key

print(k)

Dept Year

>>> for k,v in D2.items(): # Key and Value

print(k,v,sep=':',end=' ')

Dept:IT Year:2001

>>> for v in D2.values(): #Value

print(v,end=' ')

IT 2001

**Files Programs-Both Binary and Test file Manipulations**

|  |  |
| --- | --- |
| inputFileName = input("Enter the name of input file to read the grades from: ")  outputFileName = input("Enter the name of the output file to record the GPA's to: ")  inputFile = open(inputFileName, "r")  outputFile = open(outputFileName, "w")    print("Opening file", inputFileName, " for reading.")  print("Opening file", outputFileName, " for writing.")  gpa = 0  for line in inputFile:  if (line[0] == "A"):  gpa = 4  elif (line[0] == "B"):  gpa = 3  elif (line[0] == "C"):  gpa = 2  elif (line[0] == "D"):  gpa = 1  elif (line[0] == "F"):  gpa = 0  else:  gpa = -1  temp = str (gpa)  temp = temp + '\n'  print (line[0], '\t', gpa)  outputFile.write (temp)  inputFile.close ()  outputFile.close ()  print ("Completed reading of file", inputFileName)  print ("Completed writing to file", outputFileName) | inputFileName = input("Enter name of input file: ")  inputFile = open(inputFileName, "r")  print("Opening file", inputFileName, " for reading.")  for line in inputFile:  print(line)  inputFile.close()  print("Completed reading of file", inputFileName) |
| fw=open("in.txt","w")  str=input("Enter the content to write in to the file in.txt")  fw.write(str)  fw.close()  with open("in.txt","r") as f:  with open("out.txt", "w") as f1:  for line in f:  f1.write(line) | f=open("binfile.bin","wb")  num=[5, 10, 15, 20, 25]  arr=bytearray(num)  f.write(arr)  f.close() |