**Write a Python program to create a phone dictionary for all your friends and then print it.**

dict = {}  
n=int(input("enter num of elements in list"))  
for i in range(0,n,1):  
 x=int(input("Enter Phone number:"))  
 y=input("Enter Name:")  
dict={x:y}  
dict.append(dict)  
print("first list is",dict)  
print(dict)

**Write a Python program that repeatedly asks the user to enter product names and prices. Store all of them in a dictionary where the keys are the product names and the values are the product prices. Also print this dictionary.**

my\_dict ={}  
numberOfProducts=int(input('Enter Number of products: '))  
for x in range(numberOfProducts):  
 productName=input('Product Name: ')  
 PriceOfProduct = int(input('Price: '))  
 my\_dict[productName] = PriceOfProduct  
  
print(my\_dict)  
  
while True:  
 productName=input('\nEnter a product name to know its price: ')  
 if productName in my\_dict:  
 print('The price of ',productName, ' is ',my\_dict[productName],' rupees.')  
 else:  
 print("The product you have entered doesn't exist")

**Write a Python program that checks if two keys in a dictionary have the same value or not.**

from itertools import chain   
  
ini\_dict = {'a':1, 'b':2, 'c':3, 'd':2}   
print("initial\_dictionary", str(ini\_dict))   
rev\_dict = {}   
for key, value in ini\_dict.items():   
 rev\_dict.setdefault(value, set()).add(key)   
result = set(chain.from\_iterable(   
 values for key, values in rev\_dict.items()   
 if len(values) > 1))   
print("resultant key", str(result))

**Write a Python program that creates a dictionary where keys represent the country and capitals represent the values. When the user enters the country, the respective capital should be printed.**

d={}  
d1={}  
l=[]  
ch=1  
while ch==1:  
 l=[]  
 temp=(input("enter country"))  
 l.append(temp)  
 t=tuple(l)  
 d1=d1.fromkeys(t)  
 temp1=input("enter capital")  
 d1[temp]=temp1  
 print("enter 1 if you want to continue else 0:")  
 ch=int(input())  
 d.update(d1)  
print(d)  
c=input("enter the country name :")  
for i in d:  
 if i==c:  
 print("capital is:",d[i])  
 break  
 else:  
 print("country not found in dictionary")

d = str(input("Enter what you want: "))  
Capitals = {'russia': 'Moscow', 'ukraine': 'Kiev', 'USA': 'Washington'}  
print(Capitals[d])

**Write a Python program to create a dictionary whose keys are month names and whose values are the number of days in the corresponding month.**

**a) Ask the user to enter the month name and print the number of days present in that month.**

**b) Print out all the keys in alphabetical order.**

**c) Print all the months having 31 days.**

**d) Print out the key- value pairs sorted by the number of days in each month.**

mo = {'january':31, 'february':28, 'march':31, 'april':30, 'may':31, 'june':30, 'july':31, 'august':30, 'september':31, 'october':28, 'november':31, 'december':30}  
m = input('Enter a month:')  
print('Number of months in',m, 'is',mo.get(m.strip(),'Enter again:'))  
  
print(sorted(mo))  
  
for i in mo:  
 if mo[i] ==31:  
 print (i, end='')  
print()  
  
v = sorted([(i,j) for j, i in mo.items()])  
print([(j,i) for i, j in v])

dic={'Jan':31,'Feb':28,'Mar':31,'Apr':30,'May':31,'June':30,'July':31,'Aug':31,'Sep':30,'Oct':31,'Nov':30,'Dec':31}  
print(dic,"\n")  
#a  
temp=input("Enter month name:")  
  
print("No of Days in",temp,":",dic[temp])  
#b  
l=list(dic.keys())  
l.sort()  
print(l)  
#c  
for x,y in dic.items():  
 if(y==31):  
 print(x)  
#d  
print(sorted(dic.items(), key =  
 lambda kv:(kv[1], kv[0])))