**Task1:**

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| You are working in Data Science project in which you need to find the mobile networks in certain area. **Wireless Provides** | | **Access Codes** | |
| Mobilink | 030 | | 0300, 0301, 0302, 0303, 0304, 0305, 0306, 0307,  0308, 0309, 03000 |
| Zong | 031 | | 0310, 0311, 0312, 0313, 0314, 0315 |
| Warid | 032 | | 0320, 0321, 0322, 0323, 0324, 0325 |
| Ufone | 033 | | 033, 0331, 0332, 0333, 0334, 0335, 0336, 0337 |
| Telenor | 034 | | 0340, 0341, 0342, 0343, 0344, 0345, 0346, 0347 |
| SCOM | 035 | | 0355 (AJK & Gilgit- Baltistan) |
| Instaphone | 036 | | 0364 |

|  |  |  |
| --- | --- | --- |
| For this your task is to enter at least 10 mobile numbers in a file of different companies based on list provided to you. Extract the mobile numers such as 0332 is for Ufone, then at the end of the list calculate each mobile network in total. The required output will be: Mobile Number | Network | Count |
| O3323328094  .  .  . | Ufone | 1 |
| After 10 entries The total will be | | |
| Ufone Users : 4 Jazz Users 3  Telenor Users 2  Warid Users 1 | | |

# Code :

import re

file=open("New Text Document.txt","r")

f=file.read()

b=f.split()

a=[]

a.append(b)

pattern1=("033")

ufone=re.findall(pattern1,f)

pattern2=("030")

Mobilink=re.findall(pattern2,f)

pattern3=("031")

Zong=re.findall(pattern3,f)

pattern4=("032")

Warid=re.findall(pattern4,f)

pattern5=("032")

Telenor=re.findall(pattern5,f)

#print(len(ufone))

#print(a)

for i in a:

for j in range(len(i)):

#print(i[0])

k=(i[j][0:4])

#---------------------Ufone---------------------------------------------------

match1=re.search("^0336",k)

match2=re.search("^0335",k)

match3=re.search("^0334",k)

match4=re.search("^0337",k)

match5=re.search("^0333",k)

match6=re.search("^0332",k)

match7=re.search("^0331",k)

#------------------------- Warid------------------------------------------------

match8=re.search("^0320",k)

match9=re.search("^0321",k)

match10=re.search("^0322",k)

match11=re.search("^0323",k)

match12=re.search("^ 0324",k)

match13=re.search("^0325",k)

#------------------------Zong----------------------------------------------------

match14=re.search("^0310",k)

match15=re.search("^0311",k)

match16=re.search("^0312",k)

match17=re.search("^0313",k)

match18=re.search("^0314",k)

match19=re.search("^0315",k)

#---------------------Telenor----------------------------------------------------

#0340, 0341, 0342, 0343, 0344, 0345, 0346, 0347

match20=re.search("^0340",k)

match21=re.search("^0341",k)

match22=re.search("^0342",k)

match23=re.search("^0343",k)

match24=re.search("^0344",k)

match25=re.search("^0345",k)

match26=re.search("^0346",k)

match27=re.search("^0347",k)

#--------------------- SCOM-------------------------------------------------------

match28=re.search("^0335",k)

#----------------------Instaphone-------------------------------------------------

match29=re.search("^0364",k)

#----------------------Mobilink----------------------------------------------------

#0300, 0301, 0302, 0303, 0304, 0305, 0306, 0307,0308, 0309, 03000

match30=re.search("^0300",k)

match31=re.search("^0301",k)

match32=re.search("^0302",k)

match33=re.search("^0303",k)

match34=re.search("^0304",k)

match35=re.search("^0305",k)

match36=re.search("^0306",k)

match37=re.search("^0307",k)

match38=re.search("^0308",k)

match39=re.search("^0309",k)

match40=re.search("^0300",k)

if (match1 or match2 or match3 or match4 or match5 or match6 or match7 ):

print("The Network is Ufones and Number is " + i[j])

elif ( match8 or match9 or match10 or match11 or match12 or match13):

print("The Network is Warid and Number is " + i[j])

elif ( match14 or match15 or match16 or match17 or match18 or match19 ):

print("The Network is Zong and Number is " + i[j])

elif ( match20 or match21 or match22 or match23 or match24 or match25 or match26 or match27):

print("The Network is Telenor and Number is " + i[j])

elif ( match28):

print("The Network is SCOM and Number is " + i[j]+ "AJK & Gilgit- Baltistan")

elif(match29):

print("The Network is Instaphone and Number is " + i[j])

elif(match30 or match31 or match32 or match33 or match34 or match35 or match36 or match37 or match38 or match39 or match40):

print("The Number is Mobilink " + i[j])

else:

print("The number is Wrong !")

print("The total Number of Ufone user is {}".format(len(ufone)))

print("The total Number of Mobilink user is {}".format(len(Mobilink)))

print("The total Number of Warid user is {}".format(len(Warid)))

print("The total Number of Zong user is {}".format(len(Zong)))

print("The total Number of Telenor user is {}".format(len(Telenor)))

# Result:

