Project 2

AIM : write a program to input ‘n’ numbers and group the numbers in angstrom number,palindrome number, and other numbers.

CODE

a=int(input("enter the number of numbers you want to enter "))

f=[]

for i in range (0,a):

b=int(input("enter the number"))

f.append(b)

g=[]

for i in f:

c=str(i)

if c==c[::-1]:

g.append(int(c))

print("the palindrome numbers entered are : ",g)

l=[]

for i in f:

v=[]

b=i

string=str(i)

length=len(string)

while i!=0:

z=i%10

v.append(z)

i=i//10

p=0

for j in v:

p=p+(j\*\*length)

if p==b:

l.append(p)

print("the angstrom numbers are : ",l)

k=[]

for i in f:

if i not in g and i not in l:

k.append(i)

print("the other numbers are ",k)

OUTPUT

Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

RESTART: C:\Users\LAB003\AppData\Local\Programs\Python\Python37-32\sranav 2.py

enter the number of numbers you want to enter 6

enter the number1221

enter the number123321

enter the number407

enter the number370

enter the number1234

enter the number5678

the palindrome numbers entered are : [1221, 123321]

the angstrom numbers are : [407, 370]

the other numbers are [1234, 5678]

>>>