Python programming basic assignment 13:

Q1) import math

print("enter values “)

list = []

a = input()

list = a.split(',')

list2 = []

c = 50

h = 30

for d in list:

p = (2\*c\*int(d))/h

q = math.sqrt(p)

list2.append(q)

print(list2)

Q2) print("enter values ")

a = input()

b,c = a.split(',')

rows, cols = (int(b), int(c))

array = []

for i in range(rows):

col = []

for j in range(cols):

col.append(i\*j)

array.append(col)

print(array)

Q3) print("enter words ")

a = input()

list1 = []

list1 = a.split(',')

list1.sort()

print(list1)

Q4) print("enter words ")

a = input()

list2 = []

list2 = a.split(' ')

list3 =[]

for i in list2:

if i not in list3:

list3.append(i)

list3.sort()

print(list3)

Q5) print("enter sentence ")

a = input()

b = a.lower()

list5 = ['1','2','3','4','5','6','7','8','9','0']

list6 = [‘q’,'w','e','r','t','y','u','i','o','p','a','s','d','f','g','h','j','k','l',

'z','x','c','v','b','n','m']

l = 0

d = 0

for i in b:

if i in list5:

d = d + 1

if i in list6:

l = l + 1

print("LETTERS ", l)

print("DIGITS ", d)

Q6) print("enter passwords ")

a = input()

list5 = ['1','2','3','4','5','6','7','8','9','0']

list6 = [‘q','w','e','r','t','y','u','i','o','p','a','s','d','f','g','h','j',

'k','l','z','x','c','v','b','n','m']

list7 = [‘Q','W','E','R','T','Y','U','I','O','P','A','S','D','F','G','

H','J','K','L','Z','X','C','V','B','N','M']

list8 = [‘!','@','#','$','%','^','&','\*','(',')','\_','-','=','+','{','}',

';',':','"',',','.','/','<','>','?']

list9 = []

list9 = a.split(',')

print(list9)

for i in range(len(list9)):

if len(list9[i]) < 6:

print("please enter minimum 6 characters ")

elif len(list9[i]) > 12:

print("please enter less than 12 characters ")

else:

w = 0

x = 0

y = 0

z = 0

v = 0

for k in str(list[i]):

if k in list5:

w = 1

if k in list6:

x = 1

if k in list7:

y = 1

if k in list8:

z = 1

v = w + x + y + z

print(v)

if v == 4:

printlist9[i]

else:

print("password criteria not satisfied ")