1) Write a program to print the reverse of the number 123456789 such that the output type is also a number ?

num=123456789

print(int(str(num)[::-1]))

987654321

2)Write a program to copy specific elements from one tuple to another tuple your input is as follows

a = ('python','saketh',25,'codegnan',36,'mentor',[1,4,5],26)

Output should as b = ('saketh', 'codegnan', 'mentor', 26)

a=('python','saketh',25,'codegnan',36,'mentor',[1,4,5],26)

a[1:8:2]

('saketh', 'codegnan', 'mentor', 26)

3) Your input string is a = 'ppy!'output string should be as 'papaya!' ?

(a)print(a[0]+'a'+a[1]+'a'+a[2]+'a'+a[3])

papaya!

(b)'a'.join(a)

'papaya!'

4) You have two lists as below:

a = ["I'","work", "i", "Code"]

b = ["am", "ing", "n", "gnan"]

Output should be as ["I'am working in Codegnan"]

c=a[0]+" "+b[0]+" "+a[1]+b[1]+" "+a[2]+b[2]+" "+a[3]+b[3]

c

'I am working in codegnan'

5) Your input is a = ["a", "b", ["c", ["d", "e", ["f", "g"], "k"], "l"], "m", "n"]

Your output should be as below:

['a', 'b', ['c', ['d', 'e', ['f', 'g', 'h', 'i', 'j'], 'k'], 'l'], 'm', 'n']

output:

p=['a','b',['c',['d','e',['f', 'g'], 'k'], 'l'], 'm','n']

p

['a', 'b', ['c', ['d', 'e', ['f', 'g'], 'k'], 'l'], 'm', 'n']

p[2]

['c', ['d', 'e', ['f', 'g'], 'k'], 'l']

p[2][1]

['d', 'e', ['f', 'g'], 'k']

p[2][1][1]

'e'

p[2][1][2]

['f', 'g']

p[2][1][2]=['f','g','h','i']

p[2][1][2]

['f', 'g', 'h', 'i']

p

['a', 'b', ['c', ['d', 'e', ['f', 'g', 'h', 'i'], 'k'], 'l'], 'm', 'n']

6)a= "Ivis"; b="code"

Create a mixed String:

Given two strings, a and b. Write a program to create a new string c made of the first char of a, then the last char of b, Next, the second char of a and second last char of b, and so on.

Output should be as 'Ievdiosc'

output:

m='Ivis'

n='code'

m[0]+n[-1]+m[1]+n[-2]+m[2]+n[-3]+m[3]+n[-4]

'Ievdiosc'

7)Find all the occurances(count) of "Codegnan" in the given string ignoring the case

a = 'I work in Codegnan,and codegnan is in Vijayawada & I love codegnan'

output:

m='I work in Codegnan and codegnan is in vijayawada and love codegnan'

m.count('codegnan')

2

m.lower()

'i work in codegnan and codegnan is in vijayawada and love codegnan'

m.count('codegnan')

2

f=m.lower()

f.count('codegnan')

3

8)Write a Program to split a string on hyphens and display as list

your input is a="Saketh-is-Python-Mentor"

output should be as b = ['Saketh','is','Python','Mentor']

output:

g="saketh-is-a-python-mentor"

b=a.split('-')

b=g.split('-')

>>> b

['saketh', 'is', 'a', 'python', 'mentor']

9)Write a program to reverse word order of the given string?

a = "Python learning am I"

output should be as b = 'I am learning Python'

output:

w="python learning am I"

>>> b2=w.split(' ')

>>> c=b2[-1]+' '+b2[-2]+' '+b2[-3]+' '+b2[-4]

>>> c

'I am learning python'

10)Your input string is a = "silent" output string should be as b = "listen" ?

1)Write a program to find whether a given year is a leap year or not satisfying all the possible condition for a leap year?

#leap year

year=int(input("Enter year to be checked:"))

if(year%4==0 and year%100!=0 or year%400==0):

print("The year is a leap year!")

else:

print("The year isn't a leap year!")

2) Write a program to Convert temperature entered in Fahrenheit to Celsius ?

Hint: The conversion formula is Celsius = (F-32) / 1.8

#farenheit to celcius

F=int(input("Enter the temp : "))

c=((F-32)/1.8)

print("The temp in celcius is : ", c)

3) Write a program to calculate factorial of a number by accepting input from the user?

#Factorial

f=1

n=int(input("Enter the number : "))

for i in range(1,n+1):

f=f \*i

print(f)

4)Write a program to calculate the sum and average of First n natural numbers by taking n as input from the user?

#sum and average

a=int(input("Enter the value1 : "))

b=int(input("Enter the value2 : "))

c=a+b

print(c)

avg=c/2

print(avg)

5)Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5,

between 1 and 200 (both included).

#divisible by 7 but not multiple of 5

for i in range(0,200):

if i % 7== 0 and i % 5 !=0:

print(i,"its divisible as well as not multiple with 5 ")

6)Write a program to find the sum of squares of first 20 Odd numbers?