**LIST OF INTEGERS**

**AIM:**

Enter 2 lists of integers. Check:

(a) whether lists are of the same length

(b) whether both the lists’ sums to same value

(c) whether any value occur in both

**ALGORITHM:**

1. Input two list of integers.
2. Check whether lists are of the same length
3. Check whether both the lists’ sums to same value
4. Check whether any value occur in both

**SOURCE CODE:**

list1 = []

list2 = []

m = int(input("ENTER THE LIMIT OF LIST1:"))

print("Enter the elements")

for i in range(0,m):

value = int(input())

list1.append(value)

n = int(input("ENTER THE LIT OF LIST2:"))

print("Enter the elements")

for i in range(0,n):

value = int(input())

list2.append(value)

print(list1,list2)

if len(list1) == len(list2):

print(" Both List1 and List2 are of the same length")

else:

print(" Both List1 and List2 are NOT of the same length")

if sum(list1) == sum(list2):

print(" The Sum of both List1 and List2 are same")

else:

print(" The Sum of both List1 and List2 are NOT same")

list3 = [each for each in list1 if each in list2]

print("Same Members are:",list3)

**RESULT:**

Program ran successfully and output is verified.

**STRING CHARACTER REPLACED WITH $**

**AIM:**

Get a string from an input string where all occurrences of first character replaced with ‘$’, except first character.

**ALGORITHM:**

1. Input a string.
2. replace all occurrence of first character with $.
3. Print the string.

**SOURCE CODE:**

string = input("ENTER THE STRING:")

first = string[0]

mod\_str = first+string[1:].replace(first,'$')

print(“modified string:”mod\_str)

**OUTPUT:**

ENTER STRING: PINEAPPLE

modified string: PINEA$$LE

**RESULT:**

Program ran successfully and output is verified.

**STRING WHERE FIRST AND LAST CHARACTERS EXCHANGED**

**AIM:**

Create a string from given string where first and last characters exchanged.

**ALGORITHM:**

1. Input a string.
2. Store the first letter into the last position of the string.
3. Store the last letter of the string into the first position of the string.
4. print the string

**SOURCE CODE:**

string = input("ENTER STRING")

n = len(string)

first = string[0]

last = string[n-1]

mod\_str = last + string[1:n-2] + first

print("Modified String:",mod\_str)

**OUTPUT:**

ENTER STRING: DESAI

modified string: IESAD

**RESULT:**

Program ran successfully and output is verified.

**AREA OF CIRCLE**

**AIM:**

Accept the radius from user and find area of circle.

**ALGORITHM:**

1. Read radius of the circle.
2. Print the area of the circle (use pi=3.14).

**SOURCE CODE:**

r = int(input("Enter the radius of the circle: "))

print("Area of the circle:", 3.14 \* r \* r, "square units")

**OUTPUT:**

Enter the radius of the circle: 5

Area of the circle: 78.5 square unit

**RESULT:**

Program ran successfully and output is verified.

**BIGGEST OF THREE NUMBERS**

**AIM:**

Find biggest of 3 numbers entered

**ALGORITHM:**

1. Input three numbers.
2. Check which number is bigger.
3. Print the biggest number

**SOURCE CODE:**

print("Enter 3 Numbers:")

n1 = int(input())

n2 = int(input())

n3 = int(input())

if(n1 > n2 and n1 >n3):

print(n1," is the biggest!!")

elif(n2 > n3):

print(n2," is the biggest!!")

else:

print(n3," is the biggest!!")

**OUTPUT:**

Enter 3 numbers: 5 12 6

12 is the biggest

**RESULT:**

Program ran successfully and output is verified.

**EXTENSION OF A FILENAME**

**AIM:**

Accept a file name from user and print extension of that.

**ALGORITHM:**

1. Input filename.
2. Function split is used.
3. Print the file extension

**SOURCE CODE:**

file = input("Enter the filename:")

file\_list = file.split(".")

print("File Extension is : ",file\_list[-1])

**OUTPUT:**

Enter the filename: past.jpg

File Extensionis: jpg

**RESULT:**

Program ran successfully and output is verified.

**DISPLAY FIRST AND LAST COLOR**

**AIM:**

Create a list of colors from comma-separated color names entered by user. Display first and last colors.

**ALGORITHM:**

1. Input a list of colors.
2. Display first and last colors.
3. Print colors.

**SOURCE CODE:**

clrs = []

count = int(input("Enter the number of colors:"))

print("Enter the colors:")

for x in range(count):

color = input()

clrs.append(color)

print("First Color: ",clrs[0]," Second Color: ",clrs[count-1])

**OUTPUT:**

Enter the number of colors: 3

Enter the colors: Red White Blue

Colors: Red White Blue

First Color: Red

Last Color: Blue

**RESULT:**

Program ran successfully and output is verified.