**BASIC PROGRAMS**

**1.Adding two numbers**

#Add two numbers

a=int(input("Enter Number "))

b=int(input("Enter Number "))

print(f"Sum of {a} and {b} is {a+b}")

**2.Maximum of Two Numbers**

#Maximum of Two Numbers

a=int(input("Enter Number "))

b=int(input("Enter Number "))

print(f"{a} is greater than {b}") if a>b else print(f"{b} is greater the {a}")

**3.Factorial**

#Factorial

a=int(input(" Enter Number "))

fact=1

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

  fact=fact\*i

print(f"Factorial of {a} is {fact}")

**4.Simple Interest**

#Simple Interest

P=int(input("Please Enter principal Amount "))

R=int(input("Please enter Rate of Interest Per Year "))

T=int(input("Please enter number of Years"))

Intrest\_Amount=(P\*T\*R)/100

print(f"Interest Amount for principle {P} at a rate of interest {R} in {T} Years is {Intrest\_Amount} ")

**5.Compound Interest**

#Compound Intrest

P=int(input("Please Enter principal Amount "))

R=float(input("Please enter Rate of Interest Per Year "))

T=int(input("Please enter number of Years"))

Principle=P

for i in range(T):

  intrest=(Principle\*R)/100

  Principle=Principle+intrest

Compound\_Interest=Principle-P

print(f"Compount Intrest Amount for principle {P} at a rate of intrest {R} in {T} Years is {Compound\_Interest:.2f} ")

**6.Armstrong Number**

#Armstrong Number

a=int(input("Enter Number "))

b=str(a)

sum=0

for i in b:

  sum=sum+int(i)\*\*3

if sum==a:

  print(f"{a} is an Armstrong number")

else:

  print(f"{a} is not an Armstrong number")

**7.Area of Circle.**

#Area of Circle

radius=float(input("Enter radius of circle "))

area=(22/7)\*radius\*\*2

print(f"Area of circle having radius {radius} is {area:.2f}")

**8.Prime numbers in given interval.**

#Prime numbers in given interval

Upper\_Limit=int(input("Enter Upper Limit "))

Lower\_Limit=int((input("Enter Lower Limit ")))

Prime\_Numbers=[]

for i in range(Lower\_Limit,Upper\_Limit):

      if i==1 or i==0:

        continue

      else:

        for j in range(2,i):

          if i%j==0:

            break

        else:

          Prime\_Numbers.append(i)

print(f"Prime Numbers between {Lower\_Limit} and {Upper\_Limit} is {Prime\_Numbers}")

**9.Find Given number is prime or not**

#Check Given number is prime or not

Num=int(input("Enter Number "))

if Num==0 or Num==1:

  print(f"Given number {Num} is not a Prime number")

else:

  for i in range(2,Num):

    if Num%i==0:

      print(f"Given number {Num} is not a Prime number")

      break

  else:

    print(f"Given number {Num} is a Prime number")

**10.Nth Element in Fibonacci Series**

#Nth Element in Fibonacci Series

Pos=int(input("Enter position of element in Fibonacci Series "))

n1=0

n2=1

Nth=0

if Pos==1:

  print(f"{Pos} element in Fibonacci Series is {n1}")

elif Pos==2:

    print(f"{Pos} element in Fibonacci Series is {n2}")

else:

  for i in range(Pos-2):

    Nth=n1+n2

    n1=n2

    n2=Nth

  print(f"{Pos} element in Fibonacci Series is {Nth}")

**11.Position of element in Fibonacci Series**

#Find position of number in Fibonacci series

Num=int(input("Enter Number "))

n1=0

n2=1

nth=0

count=2

if Num==n1:

  print(f"{Num} is first element in Fibonacci series")

if Num==n2:

    print(f"{Num} is at second and third element in Fibonacci series")

else:

  while Num>=nth:

    nth=n1+n2

    n1=n2

    n2=nth

    count=count+1

    if Num==nth:

      print(f"{Num} is {count}th element in Fibonacci series")

      break

  else:

    print(f"{Num} is not an element in Fibonacci series")

**13.ASCII value of given Character**

#Ascci Value of Charcter

a=input("Enter character to find it ASCII value ")

print(f"ASCII value of given character {a} is {ord(a)}")

**14.Sum of Square First N Natural numbers.**

#SUm of square N natural numbers

N=int(input("Enter Number "))

sum=0

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

  sum=sum+i\*i

print(f"Sum of first {N} natural numbers is {sum}")

**15.Sum of Cube of First N Natural Numbers.**

#SUm of cube of N natural numbers

N=int(input("Enter Number "))

sum=0

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

  sum=sum+i\*i\*i

print(f"Sum of first {N} natural numbers is {sum}")

**ARRAY PROGRAMS**

**1.Sum of Values in an array**

#Sum of values in array

Array=input("Enter the array ").split(" ")

sum=0

array=[]

for i in Array:

  sum=sum+int(i)

  array.append(int(i))

print(f"sum of values in the {array} is {sum}")

**2.Find Max Element in Array**

#Find Max element in array

Array=input("Enter the array ").split(" ")

sum=0

array=[]

max=0

for i in Array:

  l=int(i)

  if l>=max:

    max=int(i)

  array.append(int(i))

print(f"Max of values in the {array} is {max}")

**3.Rotate Array N numbers of times to backwards**

#Rotate string N number of times

Array=input("Enter the array ").split(" ")

array=Array.copy()

N=int(input("Enter number of times that array should be rotate "))

for i in range(N):

  m=Array[0]

  Array.remove(m)

  Array.append(m)

  array1=[]

  Array1=[]

for i in Array:

  Array1.append(int(i))

for i in array:

  array1.append(int(i))

print(f"input array {array1} after {N} rotations we get {Array1}")

**4. Rotate Array N numbers of times to Forward.**

#rotating array to forward

Array=input("Enter the array ").split(" ")

array=Array.copy()

N=int(input("Enter number of times that array should be rotate "))

for i in range(N):

  m=Array[-1]

  #print(m)

  Array.pop(-1)

  #print(Array)

  Array.insert(0,int(m))

  #print(Array)

array1=[]

Array1=[]

for i in Array:

  Array1.append(int(i))

for i in array:

  array1.append(int(i))

print(f"input array {array1} after {N} rotations we get {Array1}")

**5.Split Array at specified index and add it at end.**

#Split a part of array and add at end

Array=input("Enter the array ").split(" ")

K=int(input("Enter index at which you want to split array "))

arr=[]

array=Array.copy()

for i in range(K):

  m=array[0]

  array.remove(m)

  arr.append(m)

#print(arr)

for i in arr:

  array.append(i)

array1=[]

Array1=[]

for i in Array:

  Array1.append(int(i))

for i in array:

  array1.append(int(i))

print(f"input array {Array1} after split at {K} we get new array by add that split array at end {array1}")

**6.** **Find reminder of multiplication of all numbers in array with specified number**

#Find reminder of multiplication of all numbers in array with specified number

Array=input("Enter the array ").split(" ")

Num=int(input("Enter Number to divide "))

sum=1

for i in Array:

  sum=sum\*int(i)

Rem=sum%Num

array=[]

for i in Array:

  array.append(int(i))

print(f"reminder after multipling the values in given list {array} with given number {Num} is {Rem}")

**7.To find whether given array is monotonic**

#is given array is monotonic

a=input('Enter the array').split(" ")

b=a.copy()

count=0

count1=0

for i in range(len(a)-1):

  if int(b[i])>=int(b[i+1]):

    count=count+1

for i in range(len(a)-1):

  if int(b[i])<=int(b[i+1]):

    count1=count1+1

if count1==len(a)-1 or count==len(a)-1:

  print(f"given array {a} is monotonic")

else:

  print(f"given array {a} is not monotonic")

**List Programs**

**1.Interchange first and last element in list.**

#python program to interchange first and last element in list

a=input('Enter the array').split(" ")

b=a.copy()

m=b[0]

k=b[-1]

b.pop(0)

b.pop(-1)

b.append(m)

b.insert(0,k)

print(f"given array {a} after inter change {b}")

**2.Interchange Elements at given Positions**

#Interchange elements in list at specified position

a=input('Enter the array').split(" ")

pos1=int(input("enter position1 "))

pos2=int(input("enter position2 "))

b=a.copy()

m=b[pos1-1]

k=b[pos2-1]

b[pos1]=k

b[pos2]=m

print(f"given array {a} after inter change {b}")

**3.Ways to find length of list**

#ways of finding length of array

a=input('Enter the array').split(" ")

#method1

print(f"lenght of array {a} is {len(a)}")

#method2

count=0

for i in a:

  count=count+1

print(f"lenth of array {a} is {count}")

l=0

#method3

for i,j in enumerate(a,1):

  l=i

print(f"lenth of array {a} is {l}")

**4.Ways to find element exist in the list or not.**

#ways to find element exist in list or not

a=input('Enter the array').split(" ")

n=input("Enter value to search ")

if n in a:

  print(f"Given element {n} is present in {a} ")

else:

  print(f"Given element {n} not present in {a} ")

for i in a:

  if i==n:

    print(f"Given element {n} is present in {a} ")

    break

else:

  print(f"Given element {n} is not present in {a} ")

**5.Ways to clear list.**

#way to clear list

a=input('Enter the array').split(" ")

b=a.copy()

#using clear method

a.clear()

#using loop and pop

while (len(b)>=1):

  b.pop()

print(b)

print(a)

**6.Ways to reverse the list.**

#way to reverse list

a=input('Enter the array').split(" ")

#by slicing

b=a[::-1]

print(f"list {a} after reversing {b}")

#by uing list() and loop

c=''

for i in  a:

  c=i+c

print(f"list {a} after reversing {list(c)}")

**7.sum of numbers in list**

#sum of numbers in list

a=input('Enter the array').split(" ")

sum=0

for i in a:

  sum=sum+int(i)

print(f"sum of elements in {a} is {sum}")

**8.Multiplication of numbers in list.**

#multiplication of all numbers in list

a=input('Enter the array').split(" ")

mul=1

for i in a:

  mul=mul\*int(i)

print(f"sum of elements in {a} is {mul}")

**9.Smallest number in the list**

#smallest number in the list

a=input('Enter the array').split(" ")

b=[]

for i in a:

  b.append(int(i))

c=b.copy()

b.sort()

print(f"Smallest number in the list {c} is {b[0]} ")

**10.Largest number in the list**

#Largest number in the list

a=input('Enter the array').split(" ")

b=[]

for i in a:

  b.append(int(i))

c=b.copy()

b.sort()

print(largest number in the list {c} is {b[-1]} ")

**11.Second Largest number in list.**

#Second Largest number in the list

a=input('Enter the array').split(" ")

b=[]

for i in a:

  b.append(int(i))

c=b.copy()

b.sort()

m=b[-1]

d=-1

while True:

  if b[d]<m:

    break

  d=d-1

print(f" Second largest number in the list {c} is {b[d]} ")

**12.Nth largest number in the list**

#Nth Largest number in list

a=input('Enter the array').split(" ")

n=int(input("Enter Number "))

l=[]

for i in a:

  if i not in l:

    l.append(i)

for i in range(n-1):

  q=max(l)

  l.remove(q)

k=max(l)

print(f"{n}th largest number is list {a} is {k}")

**13.Even Numbers in the list**

#Even numbers in list

a=input('Enter the array').split(" ")

m=[]

e=[]

for i in a:

  m.append(int(i))

for i in a:

  if int(i)%2==0:

    e.append(int(i))

print(f"even numbers in the list {m} is {e}")

**14.Odd numbers in the list**

#Odd Numbers in list

a=input('Enter the array').split(" ")

m=[]

e=[]

for i in a:

  m.append(int(i))

for i in a:

  if int(i)%2!=0:

    e.append(int(i))

print(f"Odd numbers in the list {m} is {e}")

**15.Even numbers in the specified range**

#Even numbers in the specified range

start=int(input("enter start number "))

end=int(input("enter end number "))

e=[]

for i in range(start,end+1):

  if i%2==0:

    e.append(i)

print(f"Even numbers from range {start} to {end} is {e}")

**16.Odd Numbers in specified range.**

#Odd numbers in the specified range

start=int(input("enter start number "))

end=int(input("enter end number "))

O=[]

for i in range(start,end+1):

  if i%2!=0:

    O.append(i)

print(f"Odd numbers from range {start} to {end} is {O}")

**17.Positive numbers in a list**

#positive numbers in the list

a=input('Enter the array').split(" ")

m=[]

p=[]

for i in a:

  m.append(int(i))

for i in m:

  if i>0:

    p.append(i)

print(f"Positive numbers in list {m} is {p}")

**18.Negitive numbers in the list**

#Negitive numbers in the list

a=input('Enter the array').split(" ")

m=[]

n=[]

for i in a:

  m.append(int(i))

for i in m:

  if i<0:

    n.append(i)

print(f"Negitive numbers in list {m} is {n}")

**19.Positive Numbers in a specified range**

#Postive numbers in a specified range

start=int(input("enter start number "))

end=int(input("enter end number "))

pos=[]

for i in range(start,end+1):

  if i>0:

    pos.append(i)

print(f"Positive numbers in range {start} and {end} is {pos}")

**20.Negitive Numbers in a specified range**

#Negitive numbers in a range

start=int(input("enter start number "))

end=int(input("enter end number "))

neg=[]

for i in range(start,end+1):

  if i>0:

    neg.append(i)

print(f"Negitive numbers in range {start} and {end} is {neg}")

**21.Remove Multiple values from list.**

#Remove multiple values from list.

a=input('Enter the array').split(" ")

b=input('Enter the array').split(" ")

o=[]

for i in a:

  o.append(int(i))

l=[]

k=[]

for i in b:

  if i not in k:

    k.append(int(i))

for i in o:

  if i not in l:

    l.append(int(i))

print(l)

for i in k:

  if i in l:

    l.remove(i)

print(f"list {o} after removing this values {k} we get {l}")

**22.Remove empty lists in a list.**

#Remove empty list from a list.

a=input('Enter the array').split(" ")

n=[]

for i in a:

  if i!=str([]):

    n.append(i)

print(f"list before removing empty lists {a} after removing empty lists {n}")

**23.Ways to copy list.**

#ways to copy list

a=input('Enter the array').split(" ")

#using copy()

b=a.copy()

print(f" copy os list {a} is {b}")

#using loop with empty list

l=[]

for i in a:

  l.append(i)

print(f" copy os list {a} is {l}")

#using extend

k=[]

k.extend([a])

print(f" copy os list {a} is {k}")

**24.count of occurrence of the character**

#count of occurrence of a character

a=input('Enter the array').split(" ")

b=input("Enter value ")

#using loop

count=0

for i in a:

  if i==b:

    count=count+1

print(f" {b} present in {a} {count} times")

#uisng count function

m=a.count(b)

print(f" {b} present in {a} {m} times")

**25.Remove empty tuples in list**

#removing empty tuples in the list

a=input('Enter the array').split(",")

n=[]

for i in a:

  if i.strip(' ')!=str(()):

    n.append(i)

print(f"list before removing empty lists {a} after removing empty lists {n}")

**26.Duplicates in specified list.**

#duplicates in the specified list

a=input('Enter the array').split(" ")

m=[]

for i in a:

  m.append(int(i))

k=[]

l=[]

o=[]

for i in m:

  if i in k:

    l.append(i)

  else:

    k.append(i)

for i in l:

  if i not in o:

    o.append(i)

print(f"duplicates in list {m} is {o}")

**27.Cummulative sum of values in list**

#cummulative sum of values in list

a=input('Enter the array').split(" ")

b=[]

cum=[]

for i in a:

  b.append(int(i))

sum=0

for i in b:

  sum=sum+i

  cum.append(sum)

print(cumulative sum of values in given list {b} is {cum}")

**28.Sum of digits of elements in the given list.**

#Sum of digits of elements in the given list

a=input('Enter the array').split(" ")

h=[]

for i in a:

  sum=0

  for j in i:

    sum=sum+int(j)

  h.append(sum)

print(f"Sum of digits of elements in the given list {a} is {h}")

**29.Break list into number of specified parts.**

#Beaking list in to specified number of parts

a=input('Enter the array').split(" ")

n=int(input("Enter number of parts to split"))

b=[]

m=int(len(a)/n)+1

print(m)

for i in range(0,len(a),m):

  b.append(a[i:i+m])

print(f"Breaking list {a} into  {n} number of parts new list {b}")

**30.1** **creating dict from two lists**

#creating dict from two lists and sorting it.

a=input('Enter the array').split(" ")

b=input('Enter the array').split(" ")

e=b.copy()

d=b.copy()

c={}

for keys in b:

  for values in a:

    c[keys]=values

    a.remove(values)

    break

print(f”{c} is new dict formed by two list {e} and {d}”)

**String Programs**

**1.To check given string is palindrome or not.**

#check string is palindrom or not

a=input("Enter string")

if a==a[::-1]:

  print(f"Given string {a} is Palindrome")

else:

  print(f"Given string {a} is not a Palindrome")

**2.To check given string is palindrome and symmetric**

a=input("Enter string")

if len(a)%2==0:

  d=len(a)//2

else:

  d=len(a)//2+1

q=a[0:d]

w=a[d:len(a)]

print(q,w)

if q==w and a==a[::-1]:

  print(f"{a} is symmetric and palindrome ")

elif q==w and a!=a[::-1]:

  print(f"{a} is symmetric but not  palindrome ")

elif q!=w and a==a[::-1]:

  print(f"{a} is not symmetric but palindrome ")

else:

  print(f"{a} is not a symmetric, and not a palindrome ")

**3.Reverse strings in the list in order.**

#reverse strings in the list in order

a=input("Enter list of strings").split(" ")

b=[]

for i in a:

  b.append(i)

b.reverse()

print(f"after reverse the list {a} we get {b}")

**4. remove specific character from string at specified occurrence**

#remove specific character from string at specified occurrence

a=input("Enter string ")

s=input("Enter chacter to remove ")

i=int(input("Enter at which occurance need to remove "))

count=-1

n=''

for j in a:

  if j!=s or count!=i:

    n=n+j

    count=count+1

print(f"{a} after removing {s} is {n}")

**5.Check whether Substring present in given String.**

#check whether sub string present in string

String=input("Enter string")

SubString=input("enter substring to search in string ")

if SubString in String:

  print(f"given SubString {SubString} present in given String {String}")

else:

    print(f"given SubString {SubString} not present in given String {String}")

**6.Character frequency in given string.**

#character frequency in given string

a=input("Enter the string")

l={}

s=''

for i in a:

  if i not in s:

    m=a.count(i)

    l[i]=m

print(f"Character frequency of characters in given string is {l}")

**7.Convert Snake case to Pascal case**

#Snakecase to Pascal case

#pavan\_kumar is snake case pascal case is PavanKumar tittle+replace

a=input("Enter String ")

d=a.replace("\_"," ")

q=d.title()

w=q.replace(" ","")

print(f"converting snakecase {a} in to pascal case is {w}")

**8.Ways to find length of string**

#Ways finding length of string

a=input("Enter string")

#use of len

print(f"Lenght of given string {a} is {len(a)}")

#using for loop

c=0

for i in a:

  c=c+1

print(f"Lenght of given string {a} is {c}")

**9.Even Length strings in list of strings**

#Even length strings in list of strings

a=input("Enter strings ").split()

b=[]

for i in a:

  if len(i)%2==0:

    b.append(i)

print(f"In given strings{a} even lenght strings are {b}")

**10.Check given string has all vowels or not**

#To check whether the string has all vowels

a=input("Enter String ")

b=set()

for i in a:

  if i in 'aeiou':

    b.add(i)

o='aeiou'

f=[]

if len(o)==len(b):

  print(f"Given string {a} has all vowels")

else:

  for i in o:

    if i not in b:

      f.append(i)

  print(f"Given string not have this vowels {f}")

**11.Matching Characters from both strings**

#Matching characters from both strings

a=input("Enter String ")

b=input("Enter String ")

c=set(a)

d=set(b)

e=[]

for i in c:

  if i in d:

    e.append(i)

print(f"In both strings {a} and {b} has following same characters {e}")

**12.Remove duplicates from the string**

#Remove duplicates from the list

a=input("Enter String ")

b=set(a)

print(f"In given string {a} after removing the duplicates {b}")

**13.Least repeated character in string**

#Least frequent character

a=input("Enter String ")

s={}

l=[]

for i in a:

  m=a.count(i)

  s[i]=m

k=min(list(s.values()))

for key in s.keys():

  if s[key]==k:

    l.append(key)

print(f"In given string {a} follpwing are least repeated characters {l}")

**14.Maximun repeated character in string**

#Maximum frequent character

a=input("Enter String ")

s={}

l=[]

for i in a:

  m=a.count(i)

  s[i]=m

k=max(list(s.values()))

for key in s.keys():

  if s[key]==k:

    l.append(key)

print(f"In given string {a} follpwing are max repeated characters {l}")

**15.Check whether given string has special characters**

#Check whether string has special characetrs or not

st=input("Enter string ")

a=[]

m=[]

for i in range(65,91):

  a.append(chr(i))

for i in range(97,123):

  a.append(chr(i))

for i in range(0,10):

  a.append(str(i))

print(a)

for i in st:

  if i not in a:

    m.append(i)

print(f"In given String {st} has following Special charcters {m} ")

**17.Find strings having length greater than equal to specified length.**

#find strings which are greater than given length

a=input("Enter String ").split(" ")

k=int(input("Enter length of string"))

l=[]

for i in a:

  if len(i)>=k:

    l.append(i)

print(f"In given list of strings {a} following are the strings which are greater than length {k} are {l}")

**18.Remove character at specified index in string**

#removing ith charcter rom the string

a=input("Enter String")

c=list(a)

b=int(input("Please specifiy the index of character to remove"))

for i in range(len(a)):

  if i==b:

    c.pop(i)

st=''

for i in c:

  st=st+i

print(f"From given string {a} ater removing character at {b} index we get {st}")

**19.Adding Specified character between string**

#Adding specified charcter between string

a=input("Enter string")

l=input("Enter character to add")

c=a.split(" ")

st=''

n=0

for i in c:

  if n==0:

    st=st+i

  else:

    st=st+l+i

  n=n+1

print(f"{a} after adding given charcter {l} is {st}")

**20.Chick given string is binary string or not.**

#check given string is binary or not

a=input("Enter String ")

c=set()

for i in a:

  c.add(i)

if len(c)==2 and (c=={'0','1'} or c=={'1','0'}):

  print(f"Given string {a} is a binary string")

else:

  print(f"Given string {a} is not a binary string")

**21.Mismatch strings between two list of strings**

#Mismatch strings between two list of strings

a=input("Enter String ").split(" ")

b=input("Enter String ").split(" ")

c=set(a)

d=set(b)

e=c.difference(d)

f=d.difference(c)

g=e.union(f)

print(f"Difference between two strings {a} and {b} is {g}")

**Dictionary Programs**

**1.Extract Values in Dictionary and sorting, removing duplicates from it.**

#extracting values from dict sorting and removing duplicates from it.

test\_dict = {'gfg': [5, 6, 7, 8],

             'is': [10, 11, 7, 5],

             'best': [6, 12, 10, 8],

             'for': [1, 2, 5]}

a=test\_dict.values()

l=[]

for i in a:

  for j in i:

    l.append(j)

l.sort()

h=[]

for i in l:

  if i not in h:

    h.append(i)

print(f"values extracted from dict {test\_dict} ordered and removed duplicates is {h}")

**2.Sum all Values in a list**

#sum all values in a dict.

n=int(input('Eneter number of key:value pairs'))

dic={}

for i in range(n):

  key=input('Enter Key')

  Value=int(input("Enter Key"))

  dic[key]=Value

sum=0

for i in dic.values():

  sum=sum+i

print(f"sum of values in given dict {dic} is {sum}")

**3.Ways to remove keys from dictionary.**

#ways to remove keys from dictionary

n=int(input('Eneter number of key:value pairs'))

dic={}

for i in range(n):

  key=input('Enter Key')

  Value=int(input("Enter Key"))

  dic[key]=Value

key1=input("Enter key to remove ")

key2=input("Enter key to remove ")

mic=dic.copy()

dic.pop(key1)

del dic[key2]

print(f"{mic} after removing {key1} and {key2} {dic}")

new\_dic={k:v for k,v in mic.items() if k!=key1} #dict comprehension

print(new\_dic)

**5.Ways to join two strings**

#joining two dictionaries

a={'a':1,'b':2,'c':3,'d':4}

b={'e':5,'f':6}

for i,j in b.items(): #using iteration

  a[i]=j

print(a)

a.update(b) #using update

print(a)

**22.Counting Occurrence of values in list and convert into dictionary as key value pair.**

#counting occurrence of values in list and convert into dictionary key value pair.

a=input("Enter List ").split(" ")

dic={}

for i in a:

  dic[i]=a.count(i)

print(f"after counting values and making dictinoary from given list {a} is {dic}")