NIIT Official Site

Www.training.com

Link for NIIT-Student mobile app

Student -

MAC----https://apps.apple.com/in/app/niit-student/id1409604874

Android---- <https://cdnet.training.com/napp/android/niit-student-v1.6.apk>

Python Fundamanetals

Variables,Keywords,I-O functions

Data Types--Integer,Floating,Complex,String

if.else

while

For Loop----Traversal---iterate over a sequence of collection

For loop for numbers---range()

for x in range(5): # 0,1,2,3,4

for loop iterate over a sequence---range()/strings/list....

Data--variable(only one value at a time)

mark=90

mark=80

mark=70(considered mark value)

Arrays---collection/group of values of same data type

But In python in order to handle group of values we have

Complex data types(Collections)

1.Tuple () Heterogenous values(mixed data types)/Immutable(cannot able to modify/upadte)

2.List [] Heterogenous values(mixed data types)/Mutable/INDEX

--we can add,edit,update,append any no of values in list

marks=[67,35,98,43,87,23,78,13]

Index---begins from 0 to n-1

marks[0] marks[1] .....marks[7]

3.Dict {} key-value pair Heterogenous values(mixed data types)/Mutable

marks=[]

total=int(input("Enter total no of students"))

for x in range(total):

marks[x]=int(input("Enter mark"))

//item assignment

print("Marks of Student")

print(marks)

marks[2]=98

marks[2]=88

sort()----ascending order

descending

sort(reverse=True)

find difference between

append VS extend VS insert

del VS pop VS remove

del-delete one value or group of values based on index

pop---pop()--remove last item or del particualt index

l1.pop()

l1.pop(2)

del l1[3]

del l1[5:9]

l1.remove(100)

data=input("Enter your text--")

ch=input("Enter your data to search----")

count=0

for x in data:

if(x==ch):

count=count+1

print("No of times character %s is--%d"%(ch,count))

'''for x in "welcome":

print(x)

print("----------")

c1=0

for x in "welcome to session": # w

if(x=='e'): #x=='w' x=='e'

c1=c1+1

print("No of times character e is--",c1)

for i in range(5):# 01234

print(i)

print("----------")

for i in range(2,10):#23456789

print(i)

print("----------")

for i in range(2,10,2):#2468

print(i)

print("----------")

for i in range(6,1,-1):#65432

print(i)

print("----------")

for i in range(20,0,-2):#20 18 16..2

print(i)

print("----------")

for i in range(1,11):

print(i)

print("----------")

for i in range(50,1,-5):

print(i)

print("----------")'''t1=()

t2=tuple()

print(type(t1))

print(type(t2))

t3=(10,20,30,40,50)

print(t3)

print(t3[2])#slicing with help of index

print(t3[1:4])

print(t3\*3)

print(len(t3))

print(max(t3))

print(min(t3))

sum1=0

for y in t3:

sum1=sum1+y

print("Sum of values in tuple--",sum1)

#t3[3]=400 #not possible IMMUTABLE

#t3[6]=60 #not possible

marks=[]

total=int(input("Enter total no of students"))

for x in range(total):

m1=int(input("Enter mark"))

marks.append(m1)

print("Marks of Student")

print(marks)

marks.sort() #ascending

print(marks)

marks.sort(reverse=True) #descending

print(marks)

#append() used to add items in end of list

marks.append(56)

print(marks)

marks.reverse() #marks.sort(reverse=True)

print(marks) l1=[11,22,33,44,55]

print(type(l1))

l1.append(66)

l1.extend([1,2,3])

l1.insert(0,100)

print(l1)

print(l1[5])

print(l1[2:6])

print(l1.count(33))

print(l1.index(33))

print(max(l1))

print(len(l1))

l1[2]=200 #update/edit

del l1[5]

l1.pop(7)

l1.remove(33)

print(l1) l1=[]

l2=[]

for x in range(1,11):

l1.append(x)

l2.append(x\*x)

print(l1)

print(l2)

l3=[x for x in range(1,11)]

l4=[x\*x for x in range(1,11)]

print(l3)

print(l4)