Group: 7

Name: Visal Sork

Vorak Yun

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Practice

**Exercise1:**

* Step 1
* Input type: array of integer
* Output type: Boolean
* Main step:

Get array

Create Boolean to True

Loop on number of arrays

Take number to compare to with 8 and 12

Visal Sork

List array

Create Boolean to True

Loop on number of listarray

Use number of find number is not greater than 8 and less than 12

Set Boolean to False

Vorak Yun

listArray

Boolean

Loop to find index of array

Use number to find number greater than 8 and less than 12

Change boolean

Sreymom Chhum

* Step 3: Validate by teacher

List array

Create Boolean to True

Loop on number of listarray

Use number of find number is not greater than 8 and less than 12

Set Boolean to False

* Step4: Code it

array = eval(input())

isValue = True

for arr in array:

if arr < 8 or arr > 12:

isValue = False

print(isValue)

Visal Sork

listOfarray = eval(input())

isFound = True

for arr in listOfarray:

if not(arr >=8 and arr <=12):

isFound = False

print(isFound)

Vorak Yun

Array=eval(input())

isFound=True

for index in Array:

if not ( index>=8 and index<=12) and isFound:

isFound=False

print(isFound)

Sreymom Chhum

**Exercise: 2**

* Step 1
* Input type: array of integer
* Output type: array of integer
* Main step:

Input a list of Array

Use function for loop list of Array

Create 2 Boolean

Create new Array

Use the index of the array to find the first number 1

The numbers and not 1 and sums it

Use the index of the array to find the first number 0

Return array back

Call function

Print the New Array

Vorak Yun

Input a list of Array

Use function for loop list of Array

Create 2 Boolean

Create new Array

Use the index of the array to find the first number 1

The numbers and not 1 and sums it

Use the index of the array to find the first number 0

Return array back

Call function

Print the New Array

Visal Sork

listArray

set variable to store result

set Boolean of number one

set Boolean of number Zero

find index that equal one

Change Boolean of number one and number zero

Set variable result appens index if index not equal 0

If index equal 0 change Boolean number one

Set final result to variable of re sult if Boolean of number 0 not true

And not set final result to empty array

Sreymom Chhum

* Step 3: Validate by teacher

Input a list of Array

Use function for loop list of Array

Create 2 Boolean

Create new Array

Use the index of the array to find the first number 1

The numbers and not 1 and sums it

Use the index of the array to find the first number 0

Return array back

Call function

Print the New Array

Vorak Yun

* Step 4: Code it

listArray=[2,2,1,0,2,1,3,4,0]

def getArray(array):

isOne=False

isCero=True

result=[]

for i in array:

if i==1 and isOne !=True:

isOne=True

elif i !=0 and isOne and isCero:

result.append(i)

elif i ==0 and isCero and isOne:

isCero=False

if isCero != True:

answer=result

else:

answer=[]

return answer

message= getArray(listArray)

print(message)

Vorak Yun

listArray=[2,2,1,0,2,1,3,4,0]

def getArray(array):

isOne=False

isCero=True

result=[]

for i in array:

if i==1 and isOne !=True:

isOne=True

elif i !=0 and isOne and isCero:

result.append(i)

elif i ==0 and isCero and isOne:

isCero=False

if isCero != True:

answer=result

else:

answer=[]

return answer

message= getArray(listArray)

print(message)

Sreymom Chhum

listArray=[2,2,1,0,2,1,3,4,0]

def getArray(array):

isOne=False

isCero=True

result=[]

for i in array:

if i==1 and isOne !=True:

isOne=True

elif i !=0 and isOne and isCero:

result.append(i)

elif i ==0 and isCero and isOne:

isCero=False

if isCero != True:

answer=result

else:

answer=[]

return answer

message= getArray(listArray)

print(message)

Visal Sork

**Exercise 3:**

* Step 1
* Input type: array of integer
* Output type: String
* Main step:

Get array of integer

Set number of subjects to length of array

Set total to zero

Loop number on array

Sum total by number

Divide total by number of subjects

Compare it with 50

Visal Sork

listArray

set variable to store word”Fail”

set variable result

loop to find index of array

find average of result

set variable to store word “Pass”

print(result

Sreymom Chhum

Input a list of Array

set new Array

set range

loop list of Array

Sum the index to the new Array

Sum range

average the new Array and range

find the result if greater than 49 print pass

otherwise print fail

Voreak Yun

* Step 3: validate by teacher

listArray

set variable to store word”Fail”

set variable result

loop to find index of array

find average of result

set variable to store word “Pass”

print(result

Sreymom Chhum

* Step 4: Code it

listArray=[12,4]

range=0

sum=0

for index in listArray:

sum+=index

range+=1

result= sum/range

message="Fail"

if result >=50:

message="Pass"

print(message)

Voreak Yun

array= eval(input())

nbOfSubject = len(array)

total=0

for arr in array:

total += arr

final = total / nbOfSubject

if final >= 50:

result = "Pass"

else:

result = "Fail"

print(result)

Visal Sork

array=[10, 99, 70,83]

result=0

output="Fail"

for i in range(len(array)):

result+=array[i]

if result/(len(array))>50:

output="pass"

print(output)

Sreymom Chhum

**Exercise: 4**

* Step1:
  + Input type: array of Boolean
  + Output type: integer
  + Main step:

Input a list Array of Boolean

set new a Array

Loop list Array of Boolea

Find the index of Boolean if has True sum number to new Array

Print number of the new Array

Voreak Yun

listArray

set Variable

Loop to find index of array

Find array of index that have Boolean True

Count variable

Sreymom Chhum

Get array

Visal Sork

* Step 3: validate by teacher

Step4: Code it

listArray

set Variable

Loop to find index of array

Find array of index that have Boolean True

Count variable

Sreymom Chhum

listArray=[False, False, False, False]

result=0

for i in range(len(listArray)):

if listArray[i]==True:

result+=1

print(result)

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numInput=int(input())

result=""

for i in range(numInput):

if i%2==0:

numToStr=str(i)

result+=numToStr+" "

print(result)

Voreak Yun

array=[True, False, True, False, False]

findBoolean=0

for index in range(len(array)):

if array[index]==True:

findBoolean +=1

print(findBoolean)

Sreymom Chhum

array=eval(input())

nbOfTrue =0

for arr in array:

if arr == True:

nbOfTrue+=1

print(nbOfTrue)

Visal Sork

Exersice:5

* Step:1
  + Input type: integer
  + Output type: integer
  + Main step:

set numberinput

set variable to store result

us number for Loop

find number index that divide by 2

set variable to store index that found

increment number index

Sreymom Chhum

Input a number

Set result

Loop number

find the index that divide numbers equal to even

Convert a number of index to string

sum the string to result

Print result

Voreak Yun

Get number input

Loop on number by sum number by 1

Take number to divide by 2 to compare it

Visal Sork

* Step 3: Validate by teacher

Input a number

Set result

Loop number

find the index that divide numbers equal to even

Convert a number of index to string

sum the string to result

Print result

Voreak Yun

* Step 4:Code it

numInput=int(input())

result=""

for i in range(numInput):

if i%2==0:

numToStr=str(i)

result+=numToStr+" "

print(result)

Voreak Yun

number = int(input())

for i in range(number+1):

if i%2==0:

print(i,end=" ")

Visal Sork

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

result=""

for i in range(number):

if i%2==0:

strOfnumber=str(i)

- result+=strOfnumber+" "

- print(result)

Sreymom Chhum