**String palindrome**

**def** isPalindrome(s):

**return** s **==** s[::**-**1]

s **=** "malayalam"

ans **=** isPalindrome(s)

**if** ans:

    print("Yes")

**else**:

    print("No")

**string count**

s = "malayalam"

print(len(s))

**occurance of string**

string = "Python is awesome, isn't it?"

substring = "is"

count = string.count(substring)

print("The count is:", count)

**Array reverse**

1. #The original array

arr = [11, 22, 33, 44, 55]

print("Array is :",arr)

res = arr[::-1] #reversing using list slicing

print("Resultant new reversed array:",res)

1. #The original array

arr = [11, 22, 33, 44, 55]

print("Before reversal Array is :",arr)

arr.reverse() #reversing using reverse()

print("After reversing Array:",arr)

**array count**

arr=[1,2,3,4]

print(len(arr))

**array occurance**

def countX(lst, x):

count = 0

for ele in lst:

if (ele == x):

count = count + 1

return count

lst = [8, 6, 8, 10, 8, 20, 10, 8, 8]

x = 8

print('{} has occurred {} times'.format(x, countX(lst, x)))

**middle of array**

lst=[1,2,3,4,5]

middle = float(len(lst))/2

if middle % 2 != 0:

print(lst[int(middle - .5)])

else:

print(lst[int(middle)], lst[int(middle-1)])

**max min of array**

arr=[1,2,3,4]

print(min(arr))

print(max(arr))

**find common elements between two arrays**

import numpy as np

ar1 = [0, 1, 2, 3, 4]

ar2 = [1, 3, 4]

print(np.intersect1d(ar1, ar2))

**Palindrome number**

l=str(112)

if l==l[::-1]:

print('Palindrome')

else:

print('Not Palindrome')

**prime number**

n=int(input())

f=0

if n>1:

for i in range(2,n):

if(n%i==0):

f=0

break

if f==1:

print('Prime')

else:

print('Not prime')

**special number**

a = int(input())

b = 0

if a > 9:

for i in range(a):

c = int(input())

while c > 0:

d = b%10

b+=0

c//=10

print(b)

else:

print("Invalid number")

**Special Characters**

import re

def find(string):

special\_char=re.compile('[@\_!$%^&\*()<>?/\|}{~:]#')

if special\_char.search(string) == None:

return "string is accepted"

else:

return "string not accpeted"

s="Hello15"

print(s)

print(find(s))