Sum and Product

sum=0

p=0

for i in range(8):

n=eval(input("enter the no"))

if n%2==0:

print("the product of the no =",n\*n)

p=n\*n

sum=sum+p

else:

print("error")

print("sum of the products",sum)

Changing the current String

def DISPLAY(mystr):

L = len(mystr)

str2=' '

str3=' '

for i in range(0,L,1):

str2=str2+mystr[i]

for ch in str2:

if ch>='R' and ch<='U':

str3+='@'

elif ch.isupper():

str3+=ch

else:

str3+=ch.lower()

return str3

mystr="FiRST#tERM#ExAM"

mystr=DISPLAY(mystr)

print(mystr)

temperature conversion

f=0

c=float(input("enter the temp"))

f=9.0/5\*c+32

print("calculated value in farenheit",f)

loading an image from file

from cv2 import cv2

import numpy as np

import matplotlib.pyplot as plt

img = cv2.imread("butterfly.jpg")

img\_resize = cv2.resize(img,(800,400))

cv2.imshow("img",img\_resize)

img\_gray = cv2.cvtColor(img\_resize, cv2.COLOR\_BGR2GRAY)

cv2.imshow('grayscale image', img\_gray)

histrogram = cv2.calcHist([img\_gray],[0],None,[256],[0,256])

plt.plot(histrogram)

plt.show()

cv2.waitKey(0)

Table creation

table1 = row(std\_List,1,10)

table2 = cols(table1,0,5)

table3 = to\_float(table2)

print(table3)

print()

tableCA = []

for x in table3:

ca = x[1]+ x[2]

x[3] = ca

tableCA.append(x)

print(tableCA)

print()

tableLG = []

for x in tableCA:

ca=x[3]

final = x[4]/2

if ca<15 or final<20:

x[5] = "F"

else:

finalGrade = ca + final

if finalGrade>=90:

x[5]="A"

elif finalGrade >= 77:

x[5]="B"

elif finalGrade >= 65:

x[5]="C"

elif finalGrade >= 50:

x[5]="D"

else:

x[5]="E"

tableLG.append(x)

Tables arrangement

def Aisha\_181027\_combination\_of\_table\_arrangment(X,Y,D):

TX=eval(input("Enter the no of short Tables TX :")) #user enters the no. of short tables

TY=eval(input("Enter the no of long tables TY :")) #user enters the no. of long tables

empty\_distance=eval(input("Enter the empty distance :")) #user enters the distance of empty space

RD=D

while empty\_distance >0: #since we don't know the exact distance we use while loop

sum = empty\_distance %Y+(D - empty\_distance)%X

if sum <RD:

RD=sum

TX=(D - empty\_distance)//X

TY =empty\_distance//Y

empty\_distance = empty\_distance - X

print("number of short tables are (TX) : ",TX)#print statement for no. of short tables

print("number of long tables are (TY) : ",TY)#print statement for no. of long tables

print("remaining distace is (RD) : ",RD) #print the remaining distance

Aisha\_181027\_combination\_of\_table\_arrangment(3,9,29)

Buying and selling

def Aisha\_181027(prices) :

buy\_price=eval(input("enter the buying price")) #user enters the buying price

sell\_price=eval(input("enter the selling price")) #user enters the selling price

buy\_date=eval(input("enter the date of purchase")) #user enters the buying date

sell\_date=0 #selling date

profit=0 # variable that carries the value of the profit

for i in range (len (prices)):

temp = prices[i]

if prices[i]> temp: #check if the prices[i] is greater than temp

prices[i]=temp # if yes the change the value of the temp

elif temp-buy\_price<profit:

buy\_price=temp

buy\_date=i+1

elif temp-buy\_price>profit:

sell\_price = temp

sell\_date=i+2

profit=sell\_price-buy\_price

#return(buy\_price, buy\_date, sell\_price,sell\_date, profit)

print("buying date:",buy\_date, ", at the price of:",buy\_price,"$")

print("selling date:",sell\_date, ", at the price of:",sell\_price,"$")

print("profit earned :",profit,"$")

prices=[320,45,70,90,70]

Aisha\_181027(prices)

Calculating profit

prices =[]

profit=0

buy=prices[0]

profit=0

sell=0

sdate=0

for i in range(len(prices)):

temp = prices[i]

if tem<buy:

{

buy == temp

buydate = i+1

}

elif temp- buy> profit:

{

profit = temp-buy

sell=temp

sdate=i+1

}

print("buying date: day ", buydate: ", at the price of " , buy, "$")

print("selling date: day ",sdate: ", at the price of " , buy, "$")

print("maxium profit : " ,profit , "$")

prices =[300, 450, 720, 90,30,50,900,500,70]

L1=[0,1,2]; L2=[3,4,5]

L2= L1+L2

print(L2)

for i in range(0,10):

num=eval(input("Enter any no. from 0 to 10"))

if(num%3==0&num%5==0):

print("M35")

num=eval(input("Enter any num"))

if(num%3==0):

print("M3")

else:

if(num%5==0):

print("M5")

myList=[]

for tem in range(3):

myList=myList+[eval

print(myList)

creating and plotting graph

from turtle import\*

m=[1,2,3,4,5,6,7,8,9,10,11,12]

s=[120,110,80,66,66,45,40,20,45,75,95,130]

goto(180,0)

goto(0,0)

goto(0,150)

goto(0,0)

for i in range(len(s)):

goto(m[i]\*15,s[i])

dot(5,"yellow")

write(m[i],False,"center","Bold")

ht()

creating and plotting the graph

from turtle import\*

m=[1,2,3,4,5,6,7,8,9,10,11,12]

s=[120,110,80,66,66,45,40,20,45,75,95,130]

goto(180,0)

goto(0,0)

goto(0,150)

goto(0,0)

for i in range(len(s)):

if m[i]%2==0:

goto(m[i]\*15,s[i])

dot(9,"orange")

else:

goto(m[i]\*15,s[i])

dot(9,"blue")

write(m[i],False,"center","Bold")

ht()