1.Write a python program to right rotate a List by n Enter position to rotate list item: 3 Sample input: [10, 20, 30, 40, 50, 60, 70] Expected output: [50, 60, 70, 10, 20, 30, 40]

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l=[10,20,30,40,50,60,70]

n=int(input())

for i in range(n):

    x=l[0]

    for j in range(len(l)-1):

        l[j]=l[j+1]

    l[-1]=x

print(l)

1. Write a python program where for every two hours it prints the pattern without using sleep function

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import math

import schedule

def pattern():

    print(

    '''\*\*\*\*\*\*\*\*\*\*

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schedule.every(2).hours.do(pattern)

while 1:

    schedule.run\_pending()

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3.Write a program using decorators to print the traffic signal messages Expected output - RED : STOP YELLOW : SLOW DOWN GREEN : GO The decorator should be working in this order

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def trafficcolor(func):

    def message():

        color=input("Enter the color of traffic signal:").lower()

        if color in ("red","yellow","green"):

            func(color)

        else:

            print("invalid color")

    return message

@trafficcolor

def trafficsignal(color):

    if color=="red":

        print("STOP")

    elif color=="yellow":

        print("SLOW DOWN")

    else:

        print("GO")

trafficsignal()

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**OR**

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def signalmessage(func):

def message():

color=input("Enter the color of trafficlight:")

color=color.lower()

if color in ('red','yellow','green'):

val=func(color)

if val==0:

print("STOP")

elif val==1:

print("SLOW DOWN")

else:

print("GO")

else:

print("invalid color")

return message

@signalmessage

def trafficlight(color):

if color=='red':

return 0

elif color=='yellow':

return 1

else:

return 2

trafficlight()

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5.Write a function where month and year are taken as arguments which returns the output with all the dates of saturdays occuring the month

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import calendar

def satCounter(year ,month):

    days=[0, 31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31]

    sat=[]

    d=days[month]

    if month==2 and calendar.isleap(year):

        d=29

    for day in range(1,d+1):

        sat.append(calendar.weekday(year,month,day))

    # print(sat)

    return f"number of saturdays are {sat.count(6)}"

year=int(input("Enter the year"))

month=int(input("Enter month 'in numbers':"))

print(satCounter(year,month))

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