1. Write a Python program to get the current time in Python.

Sample Format :  13:19:49.078205

import datetime

x=datetime.datetime.now().time()

print(x)

16:52:53.641413

1. Write a Python program to subtract five days from current date.

Sample Date :  
Current Date : 2015-06-22  
5 days before Current Date : 2015-06-17

import datetime

x = date.today() - timedelta(5)

print(date.today())

print('5 days before Current Date :',x)

2020-11-22

5 days before Current Date : 2020-11-17

1. Write a Python script to display the various Date Time formats.
2. Current date and time

import datetime

x=datetime.datetime.now()

print(x)

2020-11-22 06:48:32.802867  
b) Current year

import datetime

x=datetime.datetime.now()

cd=x.strftime("%Y")

print(cd)

2020  
c) Month of year

import datetime

x=datetime.datetime.now()

cd=x.strftime("%B")

print(cd)

November

d) Week number of the year

import datetime

x=datetime.datetime.now()

cd=x.strftime("%W")

print(cd)

46

e) Weekday of the week

import datetime

x=datetime.datetime.now()

cd=x.strftime("%A")

print(cd)

Sunday

f) Day of year

import datetime

x=datetime.datetime.now()

cd=x.strftime("%j")

print(cd)

327

g) Day of the month

import datetime

x=datetime.datetime.now()

cd=x.strftime("%d")

print(cd)

22

h) Day of week

import datetime

datetime.datetime.today().weekday()

6

1. Write a Python program to convert a string to datetime.

Sample String : Jan 1 2014 2:43PM  
Expected Output : 2014-07-01 14:43:00

import datetime

x=datetime.datetime.now()

date\_object = x.strptime('Jul 1 2014 2:43PM','%b %d %Y %I:%M%p')

print(date\_object)

2014-07-01 14:43:00

1. Write a Python program to print yesterday, today, tomorrow.

import datetime

x=datetime.datetime.today()

print("Today",x)

data=x+datetime.timedelta(days=1)

print("Tomorrow",data)

data1=x-datetime.timedelta(days=1)

print("Yesterday",data1)

Today 2020-11-22 18:06:25.947741

Tomorrow 2020-11-23 18:06:25.947741

Yesterday 2020-11-21 18:06:25.947741

1. Write a Python program to add 5 seconds with the current time

import datetime

x=datetime.datetime.now()

print("Current time",x)

data=x+datetime.timedelta(0,5)

print("Time After 5 Seconds",data)

Current time 2020-11-22 18:23:14.432024

Time After 5 Seconds 2020-11-22 18:23:19.432024

1. Write a Python program to get week number.

Sample Date : 2015, 6, 16  
Expected Output : 25

import datetime

x=datetime.date(2015, 6, 16).strftime("%V")

print(x)

25

1. Write a Python program to drop microseconds from datetime

import datetime

y=datetime.datetime.today().replace(microsecond=0)

print(y)

2020-11-23 05:48:26

1. Write a Python program to get days between two dates.

Sample Dates : 2000,2,28, 2001,2,28  
Expected Output : 366 days, 0:00:00

from datetime import date

a = date(2000,2,28)

b = date(2001,2,28)

print(b-a)

366 days, 0:00:00

1. Write a Python program to get the number of days of a given month and year.

def days\_in\_month(month, year):

if month =='April' or month =='june' or month == 'September' or month =='November':

print(30)

elif month =='January' or month =='March' or month == 'May' or month =='July':

print(31)

elif month =='February' and is\_leap\_year(year)==True:

print(29)

elif month =='February' and is\_leap\_year(year)==False:

print(28)

else:

print('Blank')