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

Sample Format :  13:19:49.078205

CODE:

import datetime

# Get the current date and time using datetime.now() and then retrieve the time component using time()

# Print the current time

print(datetime.datetime.now().time())

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

**CODE:**

from datetime import date, timedelta

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

print('Current Date :', date.today())

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

1. Write a Python script to display the various Date Time formats.
2. Current date and time  
   b) Current year  
   c) Month of year  
   d) Week number of the year  
   e) Weekday of the week  
   f) Day of year  
   g) Day of the month  
   h) Day of week

**CODE:**

import time

import datetime

# Print the current date and time using datetime

print("Current date and time: " , datetime.datetime.now())

# Print the current year extracted from today's date

print("Current year: ", datetime.date.today().strftime("%Y"))

# Print the month of the year extracted from today's date

print("Month of year: ", datetime.date.today().strftime("%B"))

# Print the week number of the year extracted from today's date

print("Week number of the year: ", datetime.date.today().strftime("%W"))

# Print the weekday of the week extracted from today's date

print("Weekday of the week: ", datetime.date.today().strftime("%w"))

# Print the day of the year extracted from today's date

print("Day of year: ", datetime.date.today().strftime("%j"))

# Print the day of the month extracted from today's date

print("Day of the month : ", datetime.date.today().strftime("%d"))

# Print the day of the week extracted from today's date

print("Day of week: ", datetime.date.today().strftime("%A"))

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

**CODE:**

from datetime import datetime

# Parse the given date string 'Jul 1 2014 2:43PM' into a datetime object

# using the specified format '%b %d %Y %I:%M%p'

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

# Print the parsed datetime object

print(date\_object)

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

**CODE:**

import datetime

today = datetime.date.today()

yesterday = today - datetime.timedelta(days=1)

tomorrow = today + datetime.timedelta(days=1)

print('Yesterday : ', yesterday)

print('Today : ', today)

print('Tomorrow : ', tomorrow)

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

**CODE:**

import datetime

x = datetime.datetime.now()

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

print(x.time())

print(y.time())

1. Write a Python program to get week number.

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

**CODE:**

import datetime

print(datetime.date(2015, 6, 16).isocalendar()[1])

1. Write a Python program to drop microseconds from datetime

**CODE:**

import datetime

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

print()

print(dt)

print()

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

**CODE:**

from datetime import date

a = date(2000, 2, 28)

b = date(2001, 2, 28)

print(b - a)

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

**CODE:**

from calendar import monthrange

year = 2016

month = 2

print(monthrange(year, month))