Date and Time in Python

By using datetime,date and time module we can get current date and time in very simple way.

There are many way to print data and time in python i am trying to explain in simple way.

Print current Date

By using today() method of class date we can print the current date.

Method 1

```
#import module
import datetime
#Fetching current date
date_obj = datetime.date.today()
print("Current date:",date_obj)
"""

**Output**
Current date: 2020-05-06
"""
```

Here datetime is a module,date is a class and today() is method which is defined inside class date.

Method 2

```
from datetime import date
today_date = date.today()
print("Current date :", today_date)
"""
**Output**
Current date: 2020-05-06
"""
```

Print current year, month and day

```
from datetime import date

#creating object

today_date = date.today()

print("Current Year :", today_date.year)

print("Current Month :", today_date.month)

print("Current Date :", today_date.day)

"""

**Output**

Current Year : 2020

Current Month : 5

Current Date : 6

"""
```

Print current time method 1

By using datetime object we can also print current time.

<u>Example 1</u>

```
from datetime import datetime

now = datetime.now()

print("Current Date and Time:",now)

#extracting time

current_timeObj = now.strftime("%H:%M:%S")

print("Current Time =", current_timeObj)

"""

**Output**

Current Date and Time: 2020-05-06 13:56:52.214912

Current Time = 13:56:52

"""
```

Here now() function returns current date and time.

We can also create object of time for better understanding see the example:

Method 2

```
from datetime import datetime

#creating  time object

now = datetime.now().time()

print("Current Time :", now)

"""

**Output**

Current Time : 14:01:13.173288

"""
```

Print current time method 2

We can also print the current time using time module.

```
import time

#creating object

t = time.localtime()

#extracting current time

current_time = time.strftime("%H:%M:%S", t)

print("Current Time :", current_time)

"""

**Output**

Current Time : 14:07:47

"""
```

Print current Date and Time

By using datetime module we can print data and time.

Here now() is a method of class datetime that returns current date and time.

```
import datetime

datetime_obj = datetime.datetime.now()

print("Current Date and Time:",datetime_obj)

"""
**Output**
2020-05-06 13:53:21.854965
"""
```