

# Convert the timestamp value in Python

Instructions to learn how to convert timestamp values into datetime objects and datetime objects into timestamp values in Python

In this article, TipsMake.com will show you how to convert the timestamp value into a datetime object and a datetime object into a timestamp value in Python, along with specific examples to make it easier to visualize and capture this value better.

In databases, storing dates and times as timestamp values is quite common.

**Unix timestamp** or **Unix time** is the system that expresses a point on the time axis, using the number of seconds to determine the time, with the starting point from 00:00:00 on January 1, 1970 in UTC time.

Example: At 13:54:27 - 21/05/2019 has a timestamp value of 1558446867; This means from 00:00 to 1/1/1970 to 13:54:27 - May 21, 2019 is 1558446867 seconds.

## Example 1: Convert timestamp value to datetime

```
from datetime import datetime timestamp = 1562907183 dt_object = datetime.fromtimestamp(timestamp)
```

Run the program, the result returns the date and time corresponding to the timestamp 1562907183 value :

```
dt_object = 2019-07-12 11:53:03 type(dt_object) = datetime.datetime
```

Here, we import the *datetime* class from the *datetime* module and then use the *datetime.fromtimestamp()* method to return the local date and time (*datetime* object) stored in the *dt\_object* variable.

You can easily create a time display string using the *strftime* method (*strftime()*).

## Example 2: Convert datetime to timestamp value

You can retrieve the timestamp value from a datetime object using the method *datetime.timestamp()*.

```
from datetime import datetime # ngay gio hien tai now = datetime.now() timestamp = now.timestamp()
```

Result:

```
timestamp = 1562915824.395594 Ngay gio hien tai: 2019-07-12 14:17:04.395594
```

Previous lesson: Current date and time in Python

Next lesson: Module time in Python

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