Date & Time Functions

Python में datetime built-in module है| जब भी date और टाइम के साथ काम करना होता है तो इस module को अपने program में import करना होगा|

Write a program to print current date and also print date time & year sepratly.

```
import datetime
x=datetime.date.today()
print("Current date: ",x)
```

```
print("Day: ",x.day)
print("Month: ",x.month)
print("Year: ",x.year)
days_name= ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday'
, 'Saturday','Sunday']
n=x.weekday()
print(days_name[n])
```

Output:

```
Current date: 2021-07-17
Day: 17
Month: 7
Year: 2021
Saturday
```

Write a program to print day name from user input date.

```
from datetime import datetime
date=input('Enter the date MM DD YYYY:')
days_name= ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday'
, 'Saturday','Sunday']
day = datetime.strptime(date, '%d %m %Y').weekday()
print(days_name[day])
```

Output:

```
Enter the date MM DD YYYY:17 07 2021
Saturday
```

Write a program to print current date, time and also print date time & year, hour, minutes, seconds sepratly.

```
import datetime
x=datetime.datetime.now()
print("Current date & time: ",x)
print("Hours: ",x.hour)
print("Minutes: ",x.minute)
print("Seconds: ",x.second)
print("Days: ",x.day)
print("Month: ",x.month)
print("Year: ",x.year)
```

```
Current date & time: 2021-07-17 12:09:59.250700
Hours: 12
Minutes: 9
Seconds: 59
Days: 17
Month: 7
Year: 2021
```

Write a program to print current time only using datetime module.

```python
import datetime
now = datetime.datetime.now()
print(now)
currentTime = now.strftime("%H:%M:%S")
print("Current Time =", currentTime)
```

Output:

```
2021-07-17 12:34:04.429244

Current Time = 12:34:04
```

Write a program to print current time only using time module.

```python
import time
currentTime = time.strftime("%H:%M:%S")
print(currentTime)
```

Output: 12:36:18

Write a program to print current time of london time zone.

```python
import datetime,pytz
londonTime = pytz.timezone('Europe/London')
t = datetime.datetime.now(londonTime)
print("London time:", t.strftime("%H:%M:%S"))
```

Output: London time: 08:14:45

sleep(): sleep() method का प्रयोग code में time Delay करने में करते है| यह method time module में उपस्थित है|

```python
import time
print("i am normal printing.")
time.sleep(2)
print("i am printing after 2 seconds.")
```