

Date & Time API

Date and Time API:

java.util ==>
JODA Time API
joda.org
java.time

```
import java.time.*;  
public class Test  
{  
    public static void main(String[] args)  
    {  
        LocalDate date=LocalDate.now();  
        System.out.println(date);  
    }  
}
```

java.time

LocalDate
LocalTime

LocalDate

date.getDayOfMonth();
date.getMonthValue();
date.getYear();

time.getHour()
time.getMinute()
time.getSecond()
time.getNano()

```
import java.time.*;
public class Test
{
    public static void main(String[] args)
    {
        LocalDateTime dt=LocalDateTime.of(1995,04,28,12,45);
        System.out.println(dt);
    }
}
```

```
import java.time.*;
public class Test
{
    public static void main(String[] args)
    {
        LocalDateTime dt=LocalDateTime.of(1995,04,28,12,45);
        System.out.println(dt);
        System.out.println(dt.plusMonths(6));
        System.out.println(dt.minusMonths(6));
    }
}
```

Period object

```
import java.time.*;
public class Test
{
    public static void main(String[] args)
    {
        LocalDate today=LocalDate.now();
        LocalDate birthday=LocalDate.of(1990,03,08);
        LocalDate lastday=birthday.plusYears(60);
        Period p=Period.between(birthday,today);
        Period p1=Period.between(today,lastday);
        System.out.printf("Age is %d years %d months %d days",p.getYears(),p.getMonths(),p.getDays());
        System.out.printf("\nYou will have only %d days on the earth:",p1.getDays());
    }
}
```

Year object

```
import java.time.*;
public class Test
{
    public static void main(String[] args)
    {
        int n =Integer.parseInt(args[0]);
        Year y=Year.of(n);
        if(y.isLeap())
        {
            System.out.printf("%d is Leap Year",n);
        }
        else
        {
            System.out.printf("%d is Not Leap Year",n);
        }
    }
}
```

Zone

```
import java.time.*;
public class Test
{
    public static void main(String[] args)
    {
        ZoneId la=ZoneId.of("America/Los_Angeles");
        ZonedDateTime zt=ZonedDateTime.now(la);
        System.out.println(zt);
    }
}
```