Java Date Time in Java 8		
java 1.0	java.util.Date;java.text.Format	
java 1.2	java.util.Calendar	
java 8	java.time.*	
java 8 classes: LocalDate, LocalTime, LocalDateTi	me, Month (1-12), Period, Duration	
Creating Dates and Times		
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of()	Overriden by LocalData, LocalTime and LocalDateTime	
LocalDate.of(y,M,d);	M: int or Month(1-12)	
LocalTime.of(h,mi,s,ns)	ns: nano second	
LocalDateTime.of(y,M,d,h,m,s,ns)	LocalDateTime.of(d,t)	
now()	Overriden by LocalData, LocalTime and LocalDateTime	
parse(s,f)	Overriden by LocalData, LocalTime and LocalDateTime	
LocalDateTime.parse(s,f)	f must be DateTimeFormatter	
LocalDate d= new LocalDate() //not compiled		
LocalDate d= LocalDate.of(2020,10,27); //not con	npile	

Manipulating Dates and Times		
plusYYY(int)		
minusYYY(int)		
return new immutable, original not changed, like new String()		
chain of method on date and time		
getXXX(); //XXX= DayOfWeek,DayOfYear, Month, Year		
dt1.isBefore(dt2)		
dt1.isAfter(dt2)		
YYY = Years / Months /Days/Hours/Minutes/Seconds/Nanos;		
Java 8 date & time are immutable, like String objects.		
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Period and Duration	
java.time.Period; java.time.Duration;	
4 ways to create a period	
Period.ofXXX(int); //XXX=Years,Months,Days	
Period.of(int years,int months, int days);	
Period.between(d1,d2)	
Period.parse("P1Y2M3W4D");//same as Period.of(1, 2, 25)	
Modify period	
plusYYY(int); //YYY = Days   Weeks   Months   Years	
minusYYY(int); //YYY = Days   Weeks   Months   Years	
Use period	
dt.plus/minus(period);	
d.plus/minus(period);	
time.plus/minus(duration); //if input period, UnsupportedTemporalTypeException	
Chain of Periods method does not make sense	

## Formatting

## 2 methods to create a formatter

DateTimeFormatter f=DateTimeFormatter.ofXXX(FormatStyle.SHORT|MEDIUM|LONG|FULL);

DateTimeFormatter f=DateTimeFormatter.ofPattern("yyyy-MMMM-dd hh:mm:ss"); //M->1, MM->01, MMM->Jan, MMMM->January

## Standard formatter:

DateTimeFormatter.ISO\_LOCAL\_DATE/TIME/DATETIME

ISO\_LOCAL\_DATETIME: '2020-10-27T1:45:30'

## 3 ways to use formatter

f.format( date/time/datetime\_obj );

date/time/datetime\_obj.format( f );

LocalDate/Time/DateTime.parse(String s, DateTimeFormatter f);

XXX = LocalizedDate, LocalizedTime,LocalizedDateTime

date and time format legal for datatime object, datatime format not legal for date or time object