⚬ Java Topics Revision ⚬

← Date and time in Java → [001]

- **Java time:**

  Package for Date and time in java
  ↳
  Java 8 onwards.

  Before java 8, java.util package is used to hold the date and time classes. Now, these classes are deprecated.

→ **How java stores a Date?**

  Date in java is stored in the form of a long number. This long number holds the number of milliseconds passed since 1 January 1970.

  ↳ To keep the accuracy high we will store the data in milliseconds.

→ Java assumes that 1900 is the start year which means it calculate years passed since 1900 whenever we asked it for years passed.

→ To return the milliseconds in java:

        function → System.currentTimeMillis();

- —• To know the millis → function.

- —• To Print the Seconds → function/1000.

- —• To Print the Minutes → function/1000/3600.

- —• To Print the days → function/1000/3600/24.

- —• To print the Years → function/1000/3600/24/365.

[002]

→ The date class in Java :

        Date d = new Date ();
        System.out.println (d);

      → To print the current date and time using Date class.

- • We can also use constructors provided by the Date class.

→

Java date class has few methods which can be used.
      Ex → getDate(), getDay()

→ Calender class in Java

- Calendar class is a abstract class.
- We can'not create the instance.

→ It gives the instance of class
  ↳ with its static method.

→ Calendar c = Calendar. get Instance ();
  System. out. println (c);

- There are multiple Pre-defined methods in Calendar class.

→ Gregorian Calendar Class

- This class is used to create an instance of gregorian calendar.

→ Print date, time, hours according to Gregorian Calendar.

- System. out. println (c. get (Calendar. TIME));

  - Minutes / MINUTES.
  - SECONDS
  - HOUR.
  and many more.

Time Zone:

Time zone class is used to create Time Zones in java.

Some of the important methods of Time Zone class are:

- get Available IDs () →
  Get all the available IDs supported.

- get Default () → get the default Time Zone.

- get ID () → get the ID of the Time Zone.

Java Date and Time API

Java . time Package

  ↳ - It's an latest package and came from Java 8.

→ Capable of store even nano Seconds.

→ Most commonly used classes from Java . time Package:

- local Date → Represents a Date
- local Time → Represents a Time.

- Local Date Time -> Represents Date + Time.
- Date Time Formatter ->

                      Formatter for Displaying
                      & parsing date - time
                      objects.