

APT's and Annotation

1) Program to display current date & time?
Ans) `import java.time.*;`

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

2) WAP to convert a date to a string "MM/dd/yyyy"
`import java.time.LocalDate;`
`import java.time.format.DateTimeFormatter;`

```
public class DateToString {  
    public static void main (String [] args) {  
        LocalDate date = LocalDate.of (2023, 4, 4);
```

```
        DateTimeFormatter formatter = DateTimeFormatter.  
            ofPattern ("MM/dd/yyyy");
```

```
        String formattedDate = date.format (formatter);
```

```
        System.out.println ("Formatted Date: " + formatted-  
            Date);
```

```
    }  
}
```


3) Difference between Collections and streams?
Explain with an Example?

<u>Streams</u>	<u>Collections</u>
<ul style="list-style-type: none"> - It doesn't store data, it operates on the source data structure. i.e. collection - They use functional interface like lambda - Streams are Consumable - Supports both sequential & parallel processing - iterated internally by just mentioning operations 	<ul style="list-style-type: none"> - It stores all the data that the data structure contains, like set, list or Map - They don't use functional interfaces - non-Consumable. - Supports parallel processing - iterated externally using loops.

4) what is enums in java?

- Enums are used to represent a collection of related constants that have a common purpose. Each constant in an Enum is an instance of the Enum type, & they are typically defined as public static final fields

Eg :-

(class EnumDemo {

public enum DayOfWeek {

Monday, Tue-

MONDAY, TUESDAY, WEDNESDAY, THURSDAY,

FRIDAY, SATURDAY, SUNDAY

}

public static void main(String [] args) {
for (DayOfWeek d : DayOfWeek.values())

System.out.println(d);

}

}

5) What are in built annotations in java.

- built-in annotations are used to provide additional information to the java compiler & other tools.

@Override, @Deprecated, @Target

@SuppressWarnings, @FunctionalInterface

@Retention

@Documented

@Inherited.