

**1. program to display current date and time in java.**

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. Write a program to convert a date to a string in the format "MM/dd/yyyy".**

Ans –

```
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: " + formattedDate);
    }
}
```

**3. What is the difference between collections and streams?**

Ans –

**Collections:** Collections are used to store and manage groups of objects. They provide methods for adding, removing, and manipulating elements.

They are mainly focused on data storage and modification.

Collections are generally eager in nature, meaning they perform actions on all elements as soon as they are executed.

**Streams:** Streams are used for processing sequences of elements in a functional programming style.

They are focused on data transformation and computation.

Streams are lazy in nature, which means operations are not executed until they are explicitly triggered by a terminal operation.

**4. What is enums in java? explain with an example**

Ans - Enums are employed in Java to establish a set of named constants that share a common purpose. They represent a cohesive collection of related constants. Each constant within an enum is an instance of the enum type and is often defined as a public static final field.

```
class EnumDemo{
public enum DayOfWeek {
    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**

Ans – Annotations in Java are -

- @Override
- @Deprecated
- @Documented
- @SuppressWarnings
- @Retention
- @Inherited
- @FunctionalInterface
- @Retention
- @Target