

APIs and Annotation

Assignment Questions

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1. Program to display current date and time in java

Ans :

```
import java.util.Date;
public class CurrentDateAndTime {
    public static void main (String[]args){
        Date date = new Date();
        System.out.println(date);
    }
}
```

Output :-

Tue Mar 26 21:38:28 IST 2024

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

Ans :

```
import java.time.*;
public class CurrentDate {
    public static void main(String[]args){
        LocalDate date = LocalDate.now();
        int day = date.getDayOfMonth();
        int month = date.getMonthValue();
        int year = date.getYear();

        System.out.println (month + "/" + day + "/" + year);
    }
}
```

Output :-

3/26/2024

3. What is the difference between collections and streams? Explain with an Example.

Ans :

collection	stream
<ol style="list-style-type: none">1. The classes of collection are present in the java.util.* package.2. The collection is used to store the data of the same type.3. The collection has no in-built methods to perform operations on the data present inside it.4. The collection is used to store the data.	<ol style="list-style-type: none">1. The classes of stream are present in the java.util.stream.* package.2. The stream is used to perform the different operations of the specific stream.3. There are various methods present inside the stream to perform the different operations on the data.4. The stream is used to perform the operation on the collection data by converting it into the stream.

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

Ans :

- The enum is used to define the constant in java in easier way**
- We can also make our own data type by using enum which is known as enumerated data type.**
- The constants present in enums are used in all the parts of the program by invoking it.**
- We can't make the object of the enum.**
- Example :-**

```

enum Fruit{
    MANGO, APPLE, BANANA, ORANGE;
}

public class ConceptEnum {
    public static void main (String[]args){
        Fruit f = Fruit.MANGO;
        System.out.println(f) ;
    }
}

```

Output :-

MANGO

5. What are in built annotations in java?

Ans :

- The in built Annotations are used to give the information about the specific class, variable, method, etc
- The Annotation is the metadata that provide the information
- The in-built data type is pre coded by java.
- The inbuilt data type is denoted with the “@” symbol.
- There are various inbuilt data type like
 - @Override
 - @FunctionalInterface
 - @Deprecated
 - @SuppressWarnings
 - @SafeVarArgs