Assignment(Task)

1.What is immutability?Rule of immutability?

Ans-An immutableobject is an object that will not change its internal state after creation. Immutableobjects are very useful in multithreaded applications because they can be shared between threads without synchronization

1. Don't provide "setter" methods — methods that modify fields or objects referred to by fields.
2. Make all fields final and private.
3. Don't allow subclasses to override methods. The simplest way to do this is to declare the class as final. A more sophisticated approach is to make the constructor private and construct instances in factory methods.

2.What is peek method?

## Ans <https://howtodoinjava.com/java8/java-stream-peek-example/>

## 3.What is distinct method of stream API?

## Ans-<https://howtodoinjava.com/java8/java-stream-distinct-examples/>

1. What is a flatMap?

Ans-<https://javapapers.com/java/java-flatmap/>

1. What is parallel method of stream API

Ans- <https://www.baeldung.com/java-queue>

//alternatearray

**package** com.cts.assigment;

**import** java.util.Scanner;

**public** **class** Alternatearray {

**public** **static** **void** main(String[] args) {

**int** row = 3;

**int** col = 3;

**int** count = 1;

**int** arr[][] = **new** **int**[row][col];

System.***out***.println("Enter element to array: ");

Scanner sc = **new** Scanner(System.***in***);

**for**(**int** i = 0; i < row; i++) {

**for**(**int** j = 0; j < col; j++) {

arr[i][j] = sc.nextInt();

}

}

System.***out***.println("Alternate element is :");

**for**(**int** i = 0; i < row; i++) {

**for**(**int** j = 0; j < col; j++) {

**if**(!(count % 2 == 0))

System.***out***.println(arr[i][j]);

count++;

}

}

}

## }

//program

**package** com.cts.assigment;

**public** **class** Replace {

**public** **static** **void** main(String[] args) {

{

String s = "information";

**char** arr[] = s.toCharArray();

**int** i;

System.***out***.println("string "+ s);

**for**(i = 0; i < s.length(); i++) {

**if**((i + 1) % 2 == 0) {

arr[i] = arr[i + 1];

}

}

System.***out***.print("String after conversion: ");

**for**(i = 0; i < s.length(); i++) {

System.***out***.print(arr[i]);

}

}

}

}

//reserve string

**package** com.cts.assigment;

**public** **class** ReserveString {

**public** **static** **void** main(String[] args) {

String S="cognizant";

StringBuffer sb1 = **new** StringBuffer(S);

System.***out***.println(sb1.reverse());

}

}