JAVA PROGRAMMING
- CSE 3002 -

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6) Using Queue to check Palindrome.

```
import java.util.Queue;
import java.util.LinkedList;

public class QueEx {
    public static void main(String[] args) {
        Queue<Character> rev = new LinkedList<>();
        String inp = "FAFAF";

        for(int i=0; i<inp.length(); i++) {
            rev.add(inp.charAt(inp.length()-i-1));
        }

        String rev_inp="";
        while (!rev.isEmpty()) {
            rev_inp += rev.remove();
        }

        if (rev_inp.equals(inp)) {
            System.out.println("Equal");
        } else {
            System.out.println("Not Equal");
        }
    }
}
```


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a) A program to understand concept of Scanner class.

```
import java.util.Scanner;
public class Employee {
    public static void main (String [] args) {
        Scanner sc = new Scanner (System.in);
        String name = sc.nextLine ();
        char gender = sc.next ().charAt (0);
        int age = sc.nextInt ();
        long mobileNo. = sc.nextLong ();
        double cgpa = sc.nextDouble ();

        // printing data.

        System.out.println ("Nam = " + name);
        System.out.println ("Gender = " + gender);
        System.out.println ("Age = " + age);
        System.out.println ("MobileNo. = " + mobileNo);
        System.out.println ("CGPA = " + cgpa);

    }
}
```


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Q) Interface Example.

```
interface Potable {
    public void carry();
    public void sum();
}

class Laptop implements Potable {
    public void carry() {
        System.out.println("Carry");
    }
    public void sum() {
        System.out.print("Sum");
    }
}

public class Inter1 {
    public static void main(String args[]) {
        Laptop Len = new Laptop();
        Len.carry();
        Len.sum();
    }
}
```


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Q) Inheritance Example.

```
interface I1 {
    public void carry();
}
interface I2 {
    public void sum()
}
class Lap implements I1, I2 {
    public void carry(){
        System.out.println("Carry");
    }
    public void sum(){
        System.out.println("Sum");
    }
}
public class Inter2 {
    public static void main (String[] args) {
        Lap L1 = new Lap();
        L1.sum();
        L1.carry();
    }
}
```


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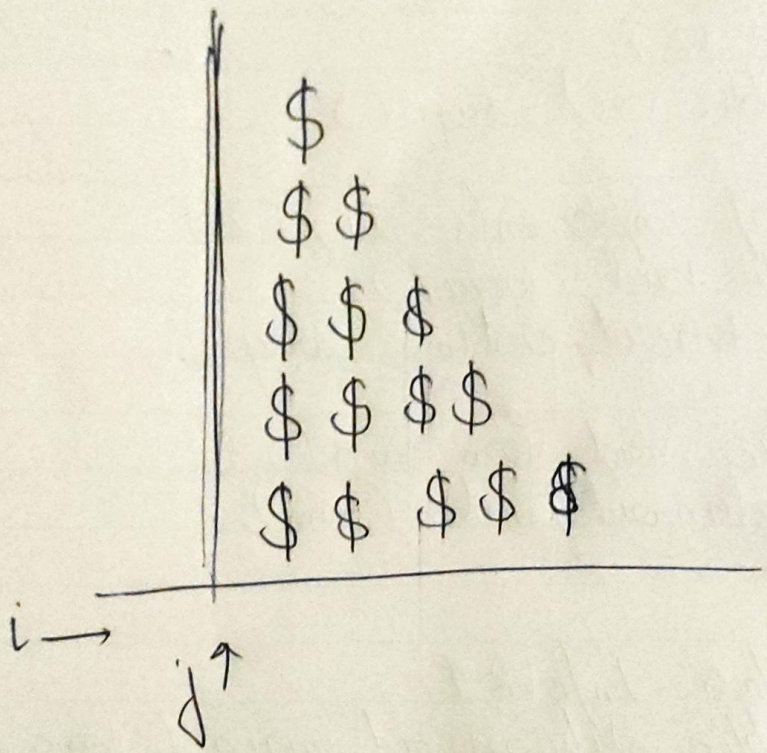
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Q) Pattern Program.

```
import java.util.*;
class Pattern
    {
    public static void main (String args[])
      {

        int i, j;
        for (i=0; i<5; i++)
          {
            for (j = 0; j < i; j++)
              {
                System.out.print ("$");
              }
            System.out.println();
          }
      }
    }
```


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