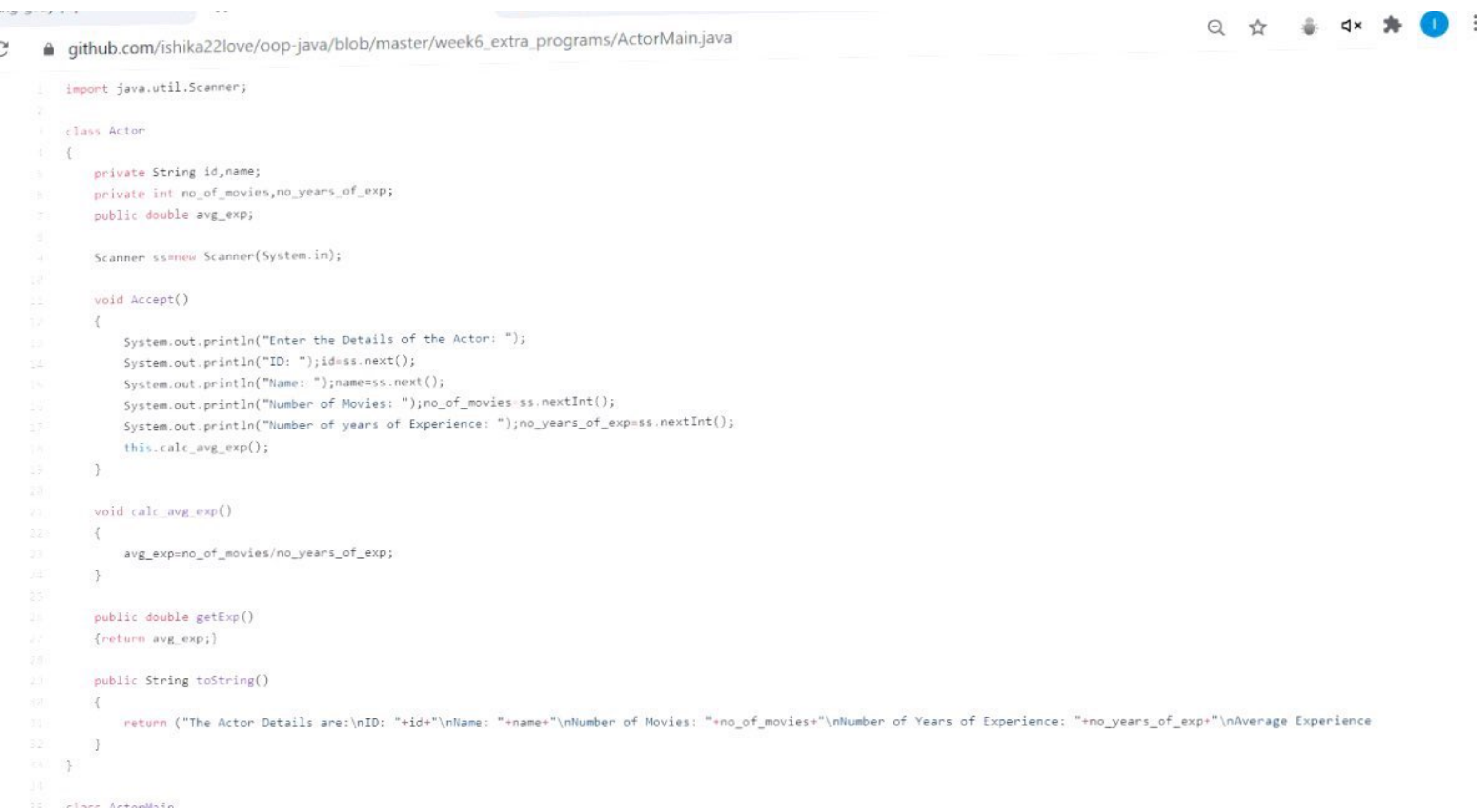
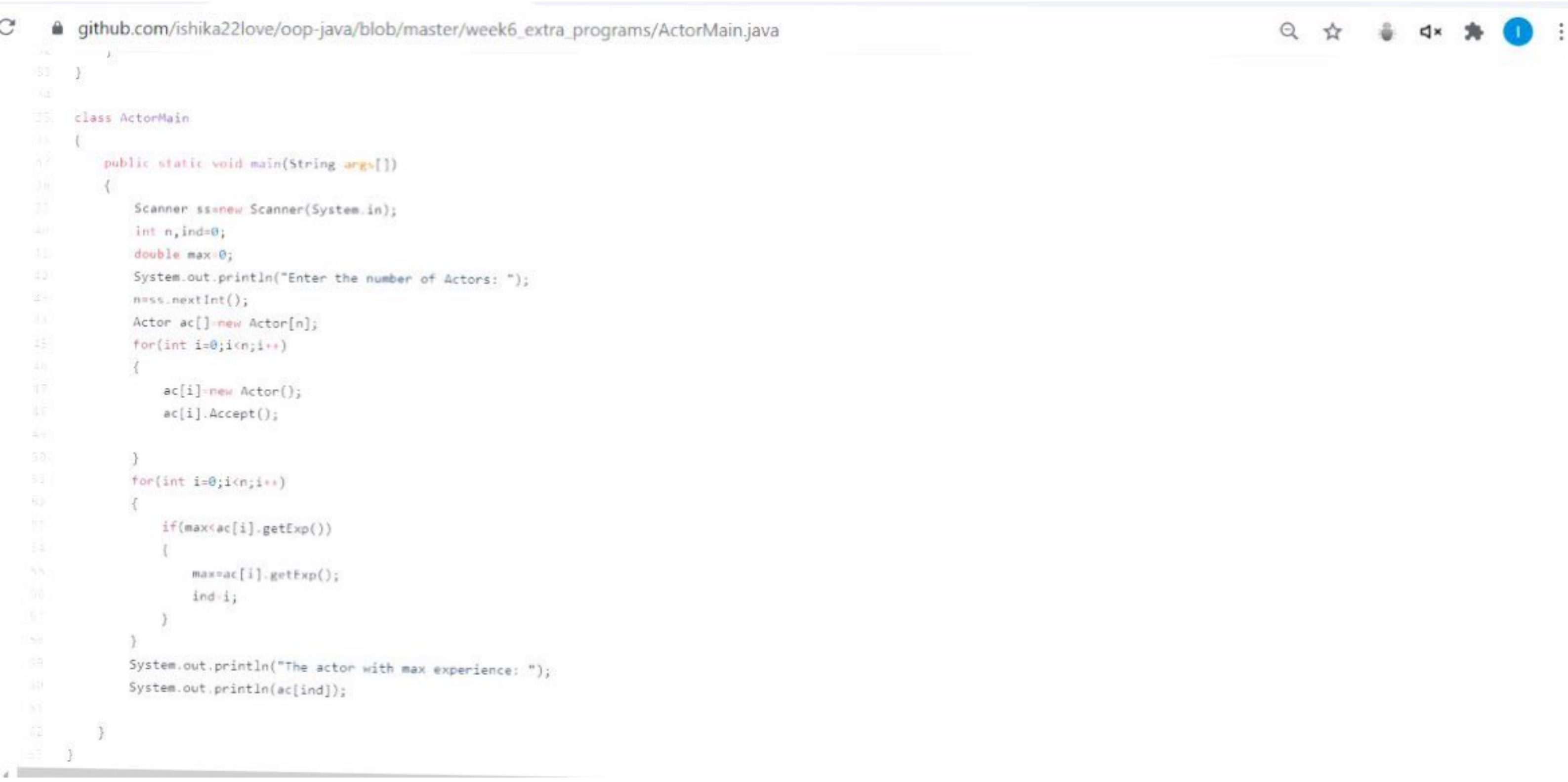


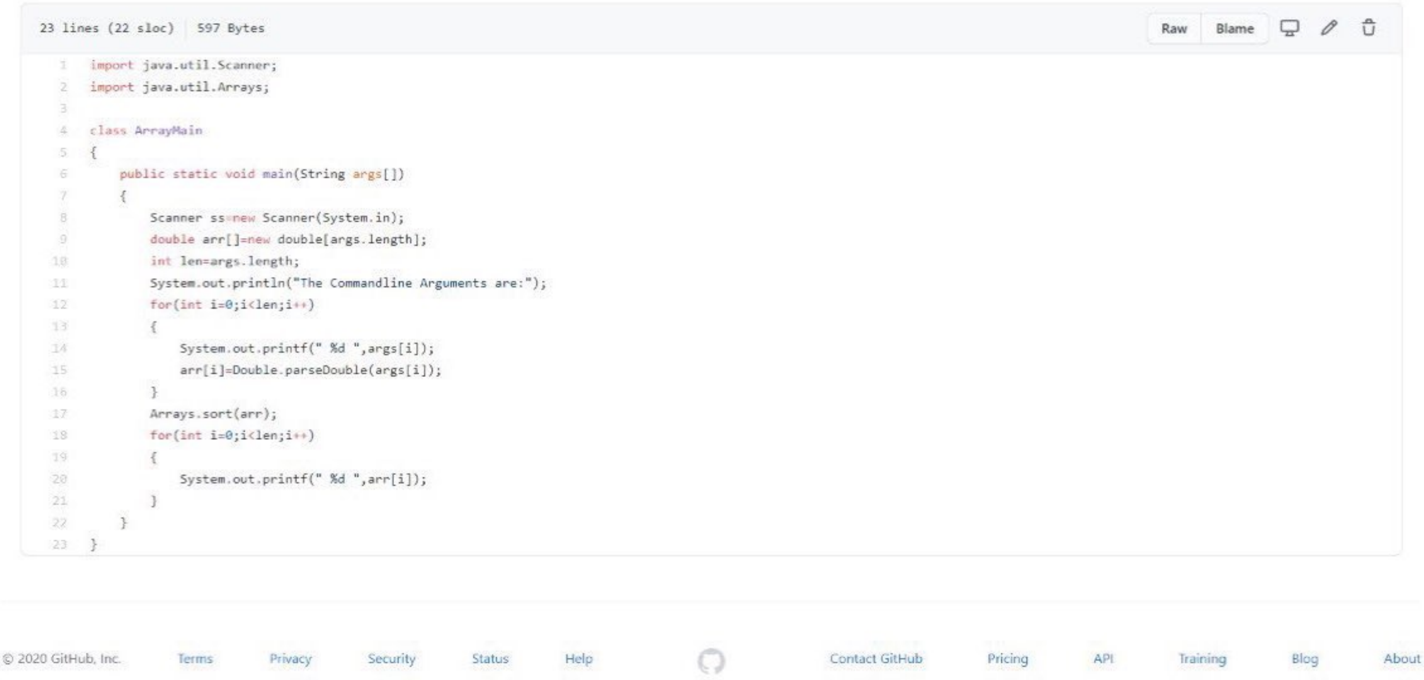
github.com/ishika22love/oop-java/blob/master/week6_extra_programs/ActorMain.java

```java
import java.util.Scanner;

class Actor
{
    private String id,name;
    private int no_of_movies,no_years_of_exp;
    public double avg_exp;

    Scanner ss=new Scanner(System.in);

    void Accept()
    {
        System.out.println("Enter the Details of the Actor: ");
        System.out.println("ID: ");id=ss.next();
        System.out.println("Name: ");name=ss.next();
        System.out.println("Number of Movies: ");no_of_movies=ss.nextInt();
        System.out.println("Number of years of Experience: ");no_years_of_exp=ss.nextInt();
        this.calc_avg_exp();
    }

    void calc_avg_exp()
    {
        avg_exp=no_of_movies/no_years_of_exp;
    }

    public double getExp()
    {return avg_exp;}

    public String toString()
    {
        return ("The Actor Details are:\nID: "+id+"\nName: "+name+"\nNumber of Movies: "+no_of_movies+"\nNumber of Years of Experience: "+no_years_of_exp+"\nAverage Experience
    }
}

class ActorMain
```

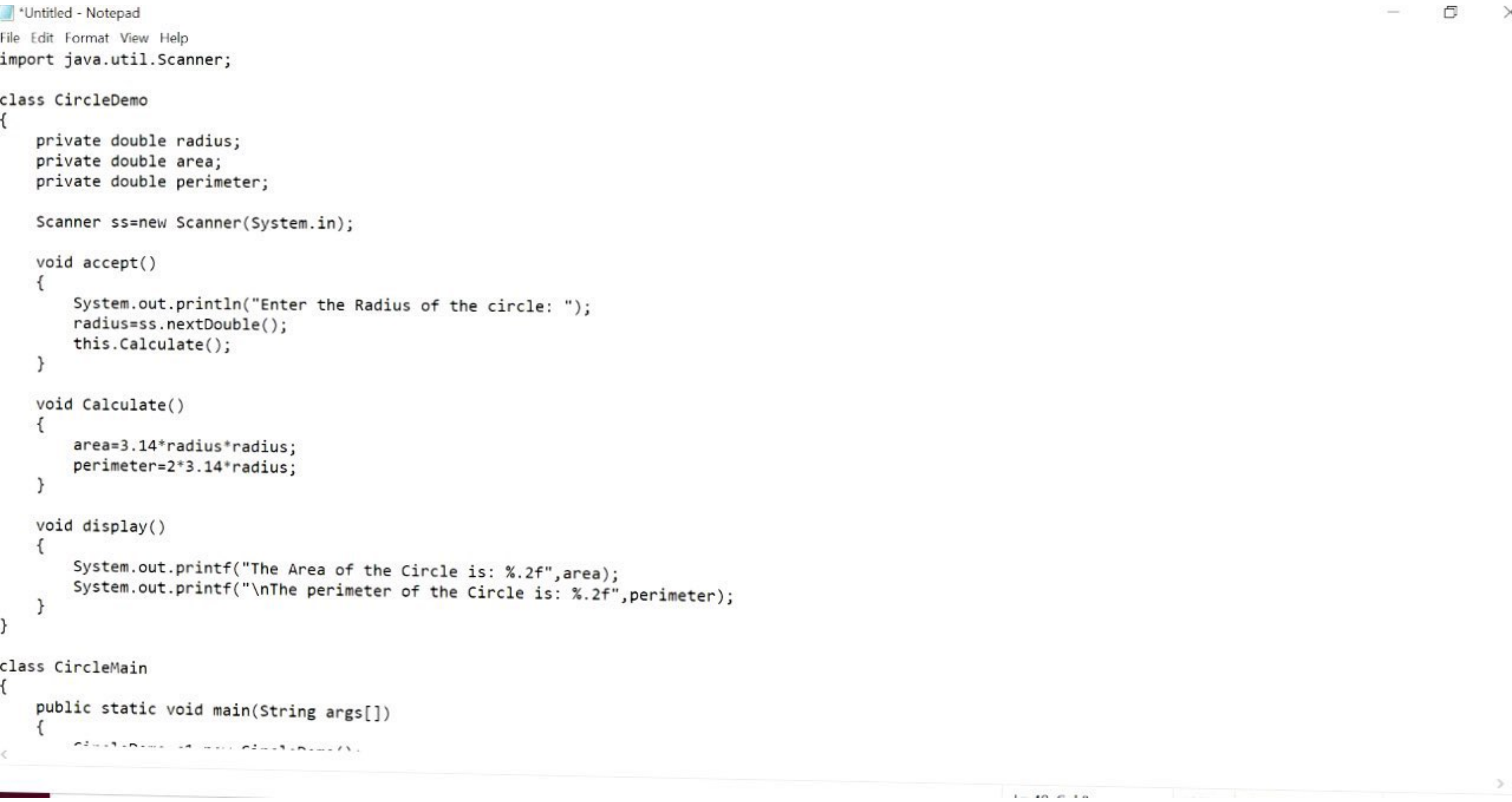


github.com/ishika22love/oop-java/blob/master/week6_extra_programs/ActorMain.java

```java
    }
}

class ActorMain
{
    public static void main(String args[])
    {
        Scanner ss=new Scanner(System.in);
        int n,ind=0;
        double max=0;
        System.out.println("Enter the number of Actors: ");
        n=ss.nextInt();
        Actor ac[]=new Actor[n];
        for(int i=0;i<n;i++)
        {
            ac[i]=new Actor();
            ac[i].Accept();

        }
        for(int i=0;i<n;i++)
        {
            if(max<ac[i].getExp())
            {
                max=ac[i].getExp();
                ind=i;
            }
        }
        System.out.println("The actor with max experience: ");
        System.out.println(ac[ind]);

    }
}
```

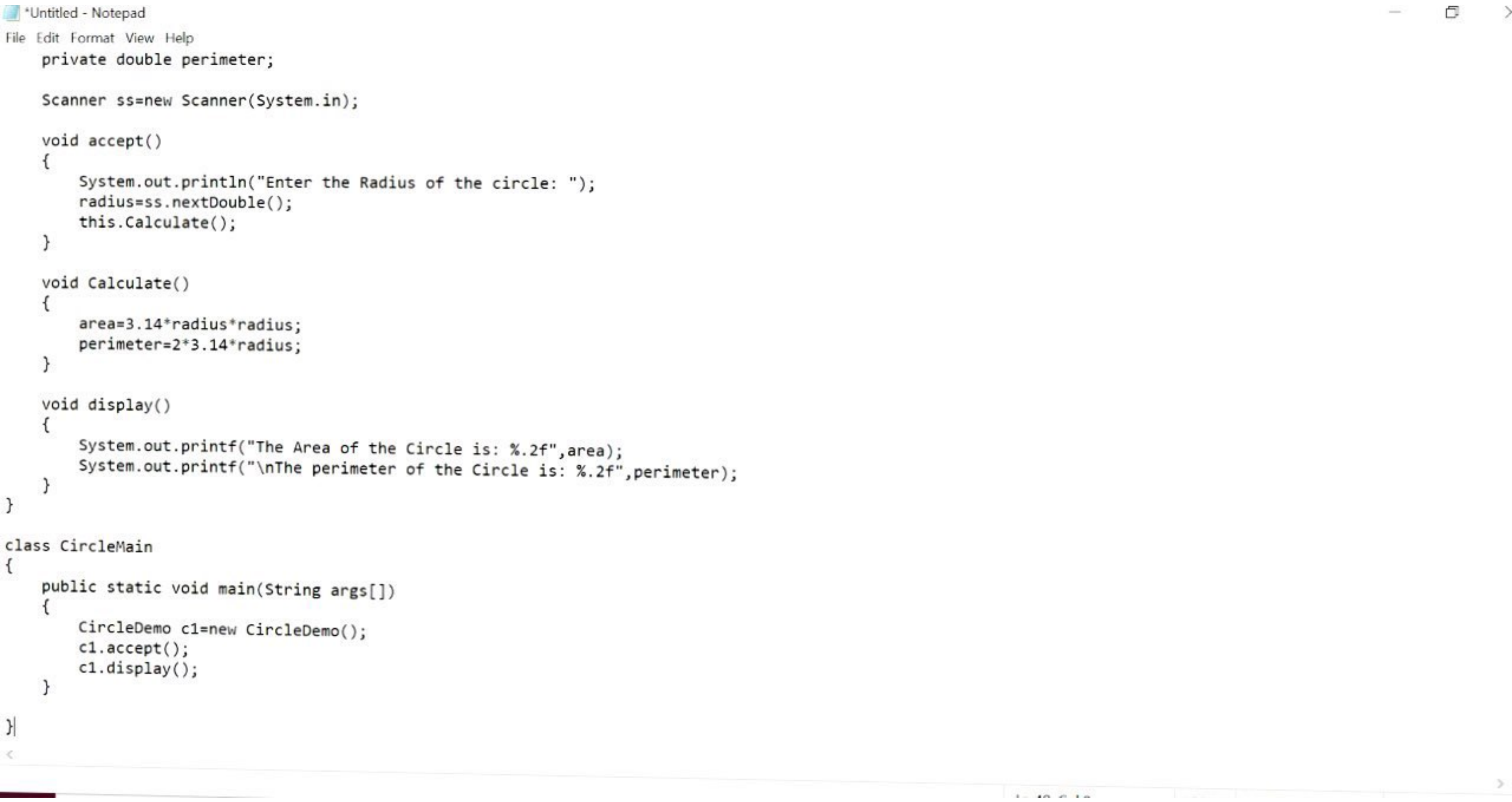


```java
import java.util.Scanner;
import java.util.Arrays;

class ArrayMain
{
    public static void main(String args[])
    {
        Scanner ss=new Scanner(System.in);
        double arr[]=new double[args.length];
        int len=args.length;
        System.out.println("The Commandline Arguments are:");
        for(int i=0;i<len;i++)
        {
            System.out.printf(" %d ",args[i]);
            arr[i]=Double.parseDouble(args[i]);
        }
        Arrays.sort(arr);
        for(int i=0;i<len;i++)
        {
            System.out.printf(" %d ",arr[i]);
        }
    }
}
```

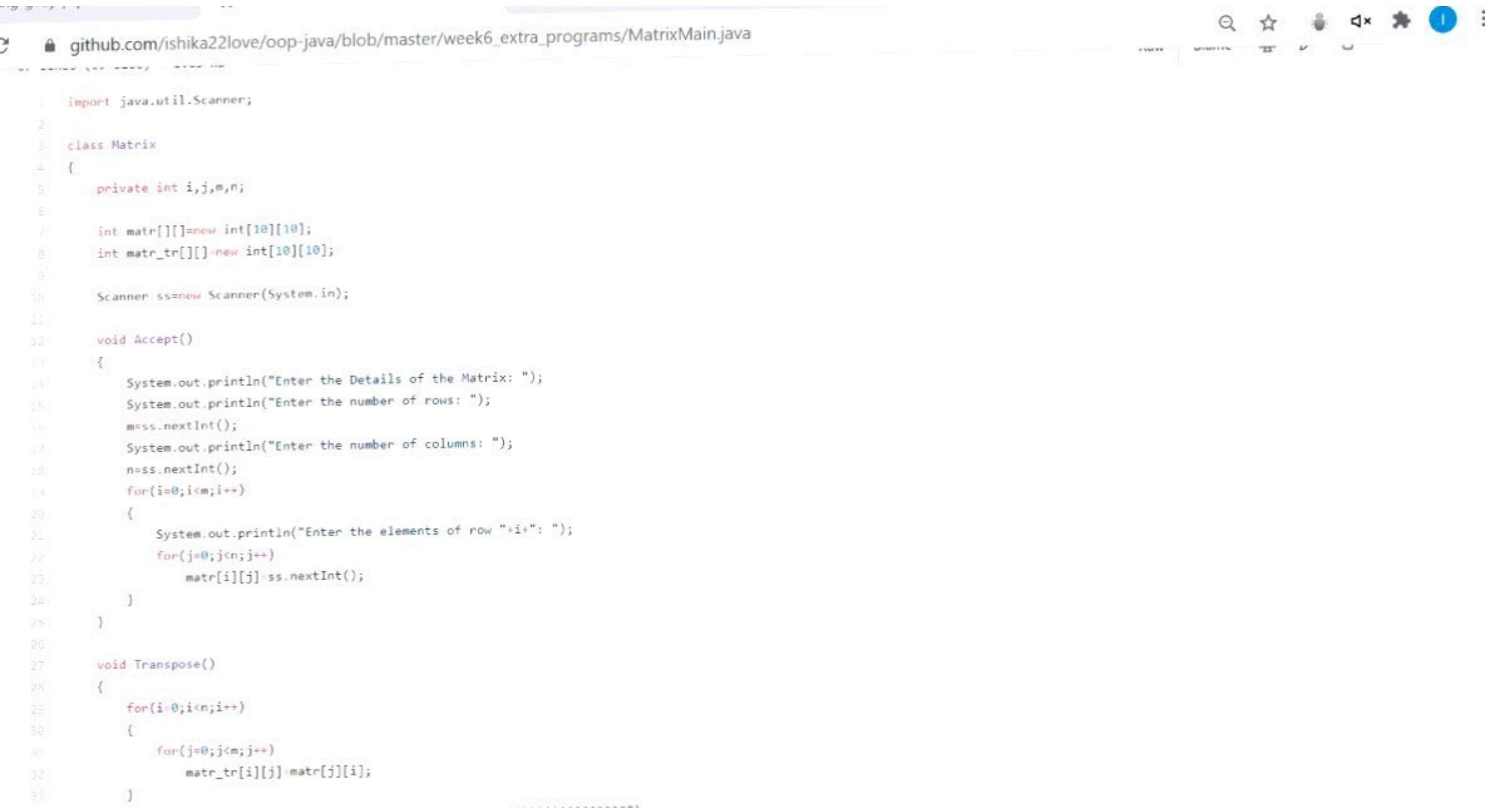


```
import java.util.Scanner;

class CircleDemo
{
    private double radius;
    private double area;
    private double perimeter;

    Scanner ss=new Scanner(System.in);

    void accept()
    {
        System.out.println("Enter the Radius of the circle: ");
        radius=ss.nextDouble();
        this.Calculate();
    }

    void Calculate()
    {
        area=3.14*radius*radius;
        perimeter=2*3.14*radius;
    }

    void display()
    {
        System.out.printf("The Area of the Circle is: %.2f",area);
        System.out.printf("\nThe perimeter of the Circle is: %.2f",perimeter);
    }
}

class CircleMain
{
    public static void main(String args[])
    {
        CircleDemo c1=new CircleDemo();
```

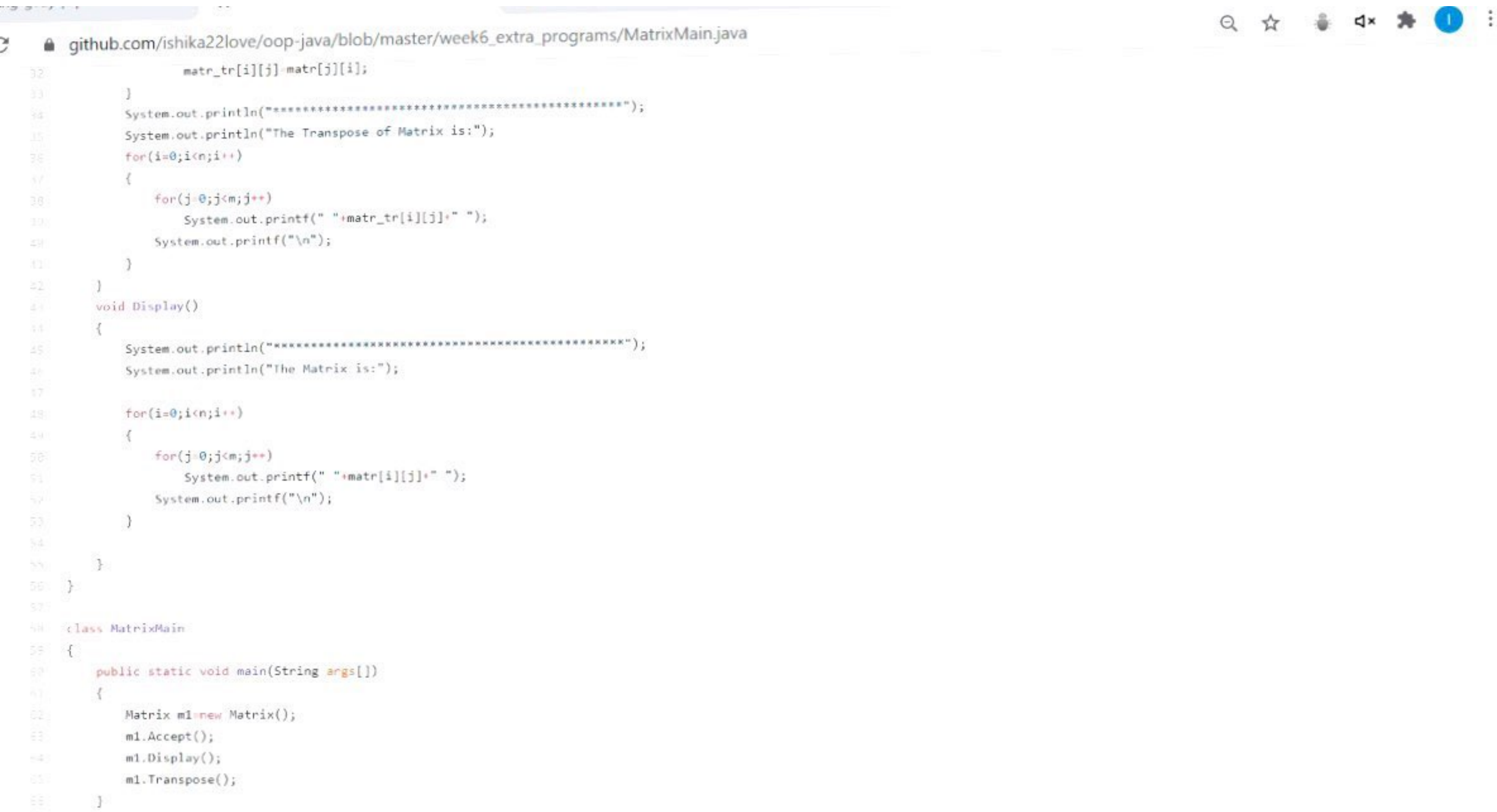
Scanned with CamScanner



```
    private double perimeter;

    Scanner ss=new Scanner(System.in);

    void accept()
    {
        System.out.println("Enter the Radius of the circle: ");
        radius=ss.nextDouble();
        this.Calculate();
    }

    void Calculate()
    {
        area=3.14*radius*radius;
        perimeter=2*3.14*radius;
    }

    void display()
    {
        System.out.printf("The Area of the Circle is: %.2f",area);
        System.out.printf("\nThe perimeter of the Circle is: %.2f",perimeter);
    }
}

class CircleMain
{
    public static void main(String args[])
    {
        CircleDemo c1=new CircleDemo();
        c1.accept();
        c1.display();
    }

}
```

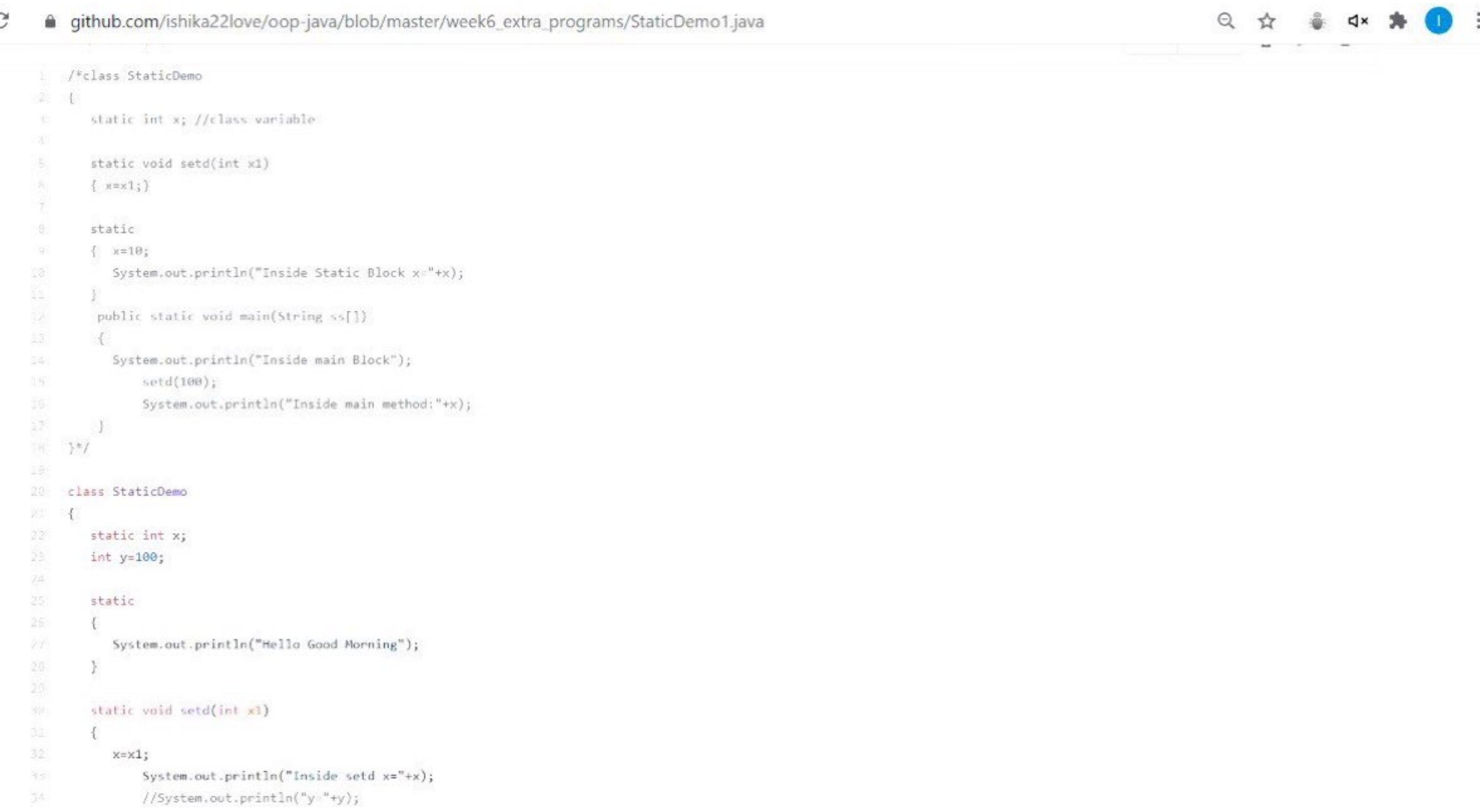

github.com/ishika22love/oop-java/blob/master/week6_extra_programs/MatrixMain.java

```java
import java.util.Scanner;

class Matrix
{
    private int i,j,m,n;

    int matr[][]=new int[10][10];
    int matr_tr[][]=new int[10][10];

    Scanner ss=new Scanner(System.in);

    void Accept()
    {
        System.out.println("Enter the Details of the Matrix: ");
        System.out.println("Enter the number of rows: ");
        m=ss.nextInt();
        System.out.println("Enter the number of columns: ");
        n=ss.nextInt();
        for(i=0;i<m;i++)
        {
            System.out.println("Enter the elements of row "+i+": ");
            for(j=0;j<n;j++)
                matr[i][j]=ss.nextInt();
        }
    }

    void Transpose()
    {
        for(i=0;i<n;i++)
        {
            for(j=0;j<m;j++)
                matr_tr[i][j]=matr[j][i];
        }
```

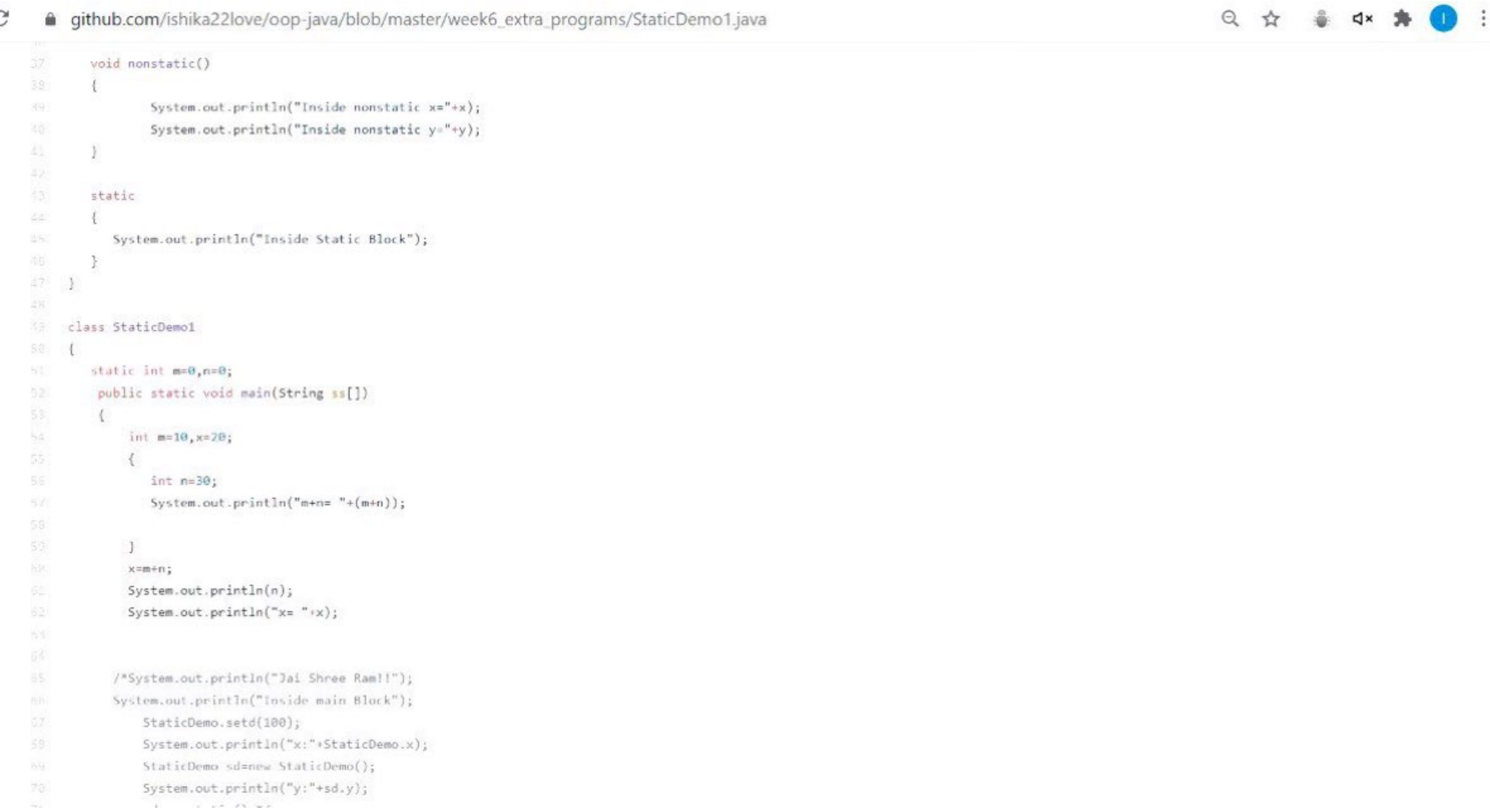


github.com/ishika22love/oop-java/blob/master/week6_extra_programs/MatrixMain.java

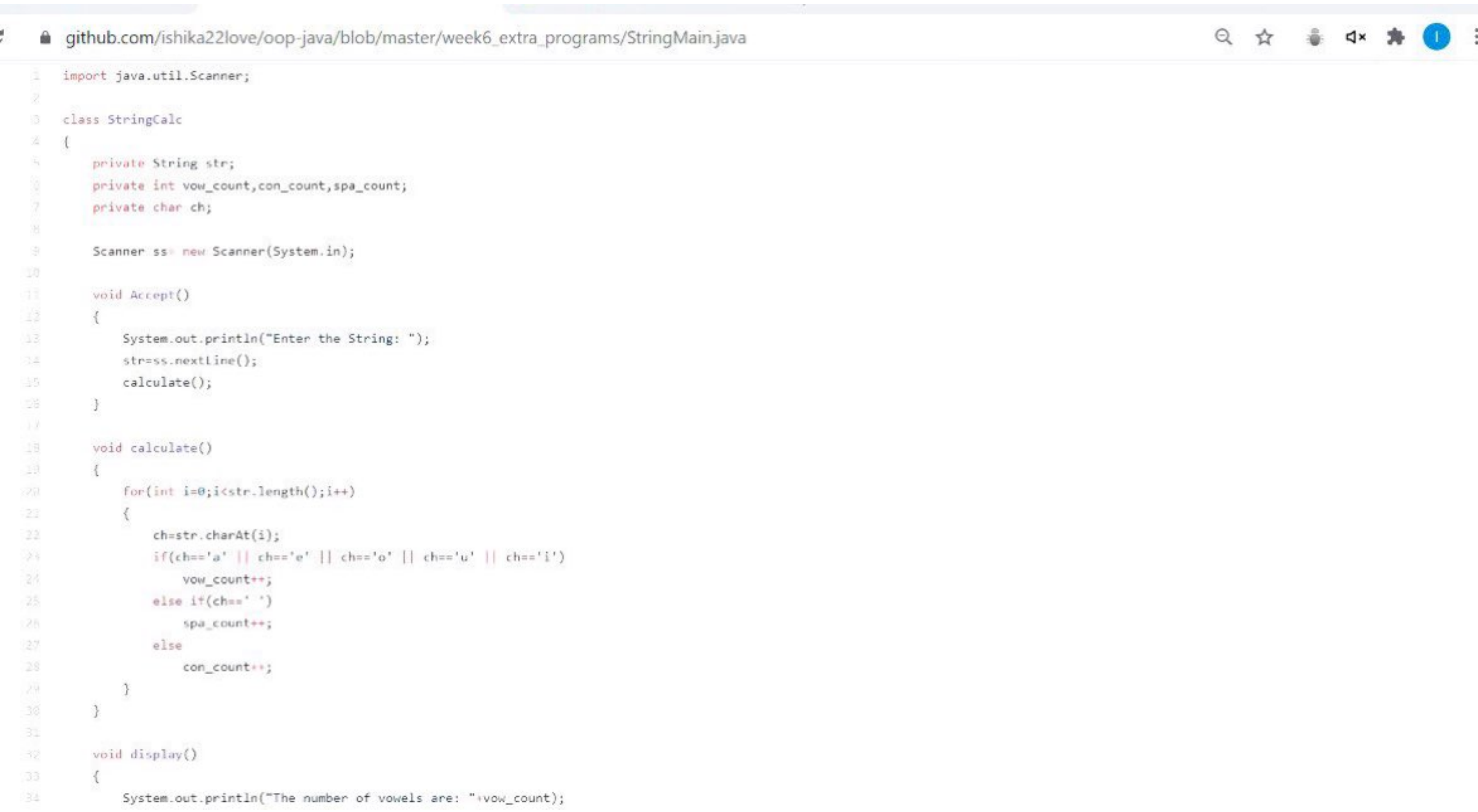
```java
                matr_tr[i][j]=matr[j][i];
        }
        System.out.println("************************************************");
        System.out.println("The Transpose of Matrix is:");
        for(i=0;i<n;i++)
        {
            for(j=0;j<m;j++)
                System.out.printf(" "+matr_tr[i][j]+" ");
            System.out.printf("\n");
        }
    }
    void Display()
    {
        System.out.println("************************************************");
        System.out.println("The Matrix is:");

        for(i=0;i<n;i++)
        {
            for(j=0;j<m;j++)
                System.out.printf(" "+matr[i][j]+" ");
            System.out.printf("\n");
        }

    }
}

class MatrixMain
{
    public static void main(String args[])
    {
        Matrix m1=new Matrix();
        m1.Accept();
        m1.Display();
        m1.Transpose();
    }
```


github.com/ishika22love/oop-java/blob/master/week6_extra_programs/StaticDemo1.java

```java
/*class StaticDemo
{
   static int x; //class variable

   static void setd(int x1)
   { x=x1;}

   static
   {  x=10;
      System.out.println("Inside Static Block x="+x);
   }
    public static void main(String ss[])
    {
      System.out.println("Inside main Block");
          setd(100);
          System.out.println("Inside main method:"+x);
    }
}*/

class StaticDemo
{
   static int x;
   int y=100;

   static
   {
      System.out.println("Hello Good Morning");
   }

   static void setd(int x1)
   {
      x=x1;
          System.out.println("Inside setd x="+x);
          //System.out.println("y="+y);
```

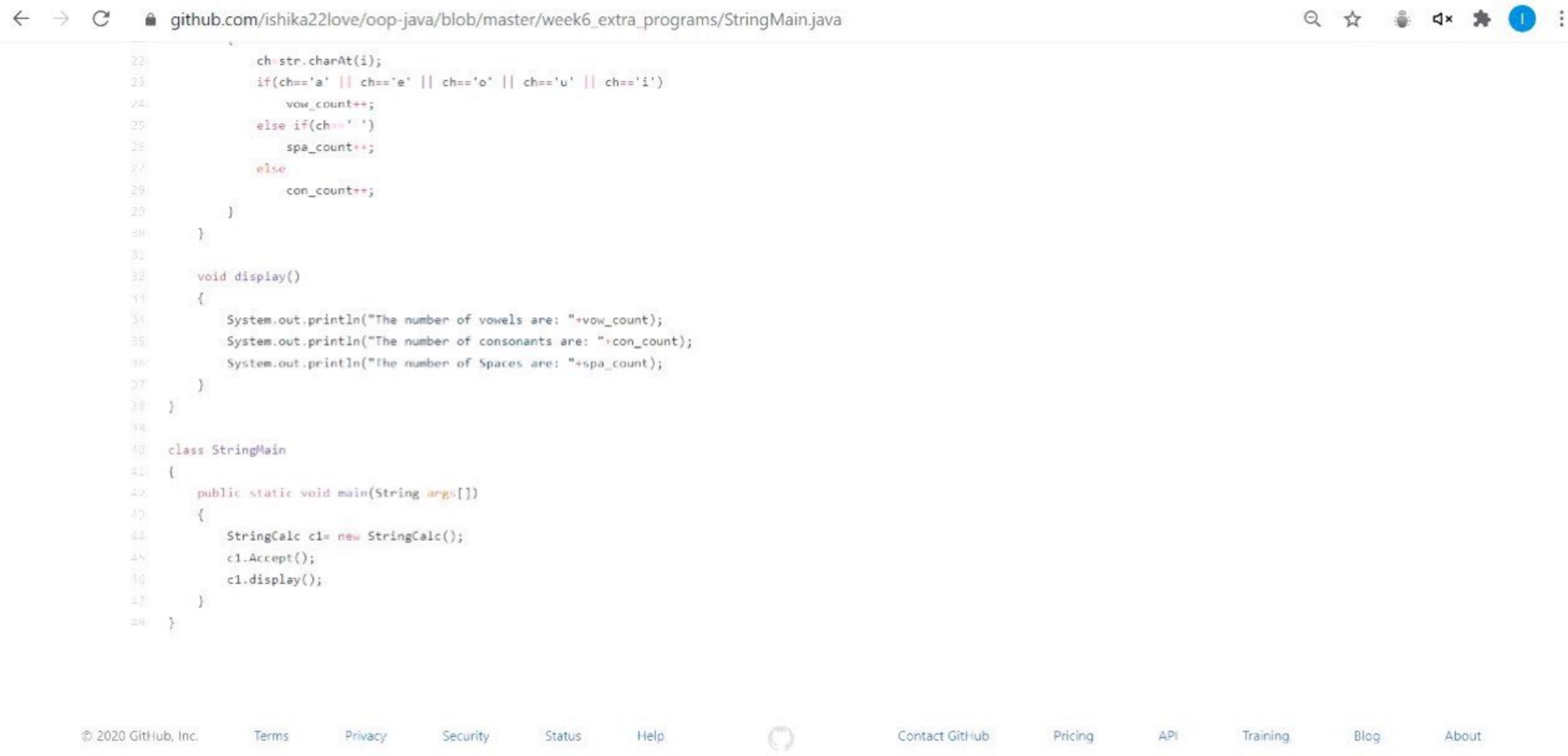

github.com/ishika22love/oop-java/blob/master/week6_extra_programs/StaticDemo1.java

```
    void nonstatic()
    {
            System.out.println("Inside nonstatic x="+x);
            System.out.println("Inside nonstatic y="+y);
    }

    static
    {
      System.out.println("Inside Static Block");
    }
}

class StaticDemo1
{
    static int m=0,n=0;
     public static void main(String ss[])
     {
        int m=10,x=20;
        {
           int n=30;
           System.out.println("m+n= "+(m+n));

        }
        x=m+n;
        System.out.println(n);
        System.out.println("x= "+x);


      /*System.out.println("Jai Shree Ram!!");
      System.out.println("Inside main Block");
          StaticDemo.setd(100);
          System.out.println("x:"+StaticDemo.x);
          StaticDemo sd=new StaticDemo();
          System.out.println("y:"+sd.y);
```



github.com/ishika22love/oop-java/blob/master/week6_extra_programs/StringMain.java

```java
import java.util.Scanner;

class StringCalc
{
    private String str;
    private int vow_count,con_count,spa_count;
    private char ch;

    Scanner ss= new Scanner(System.in);

    void Accept()
    {
        System.out.println("Enter the String: ");
        str=ss.nextLine();
        calculate();
    }

    void calculate()
    {
        for(int i=0;i<str.length();i++)
        {
            ch=str.charAt(i);
            if(ch=='a' || ch=='e' || ch=='o' || ch=='u' || ch=='i')
                vow_count++;
            else if(ch==' ')
                spa_count++;
            else
                con_count++;
        }
    }

    void display()
    {
        System.out.println("The number of vowels are: "+vow_count);
```



```
            ch=str.charAt(i);
            if(ch=='a' || ch=='e' || ch=='o' || ch=='u' || ch=='i')
                vow_count++;
            else if(ch==' ')
                spa_count++;
            else
                con_count++;
        }
    }

    void display()
    {
        System.out.println("The number of vowels are: "+vow_count);
        System.out.println("The number of consonants are: "+con_count);
        System.out.println("The number of Spaces are: "+spa_count);
    }
}

class StringMain
{
    public static void main(String args[])
    {
        StringCalc c1= new StringCalc();
        c1.Accept();
        c1.display();
    }
}
```