

## Class README.TXT

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This is the project README file. Here, you should describe your project.  
Tell the reader (someone who does not know anything about this project)  
all he/she needs to know. The comments should usually include at least:  
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PROJECT TITLE:

PURPOSE OF PROJECT:

VERSION or DATE: 1/12/2004

HOW TO START THIS PROJECT:

AUTHORS: Wizard

USER INSTRUCTIONS:



## Class ForDemo\_1

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```
import java.util.Random;
public class ForDemo_1
{
    // class variables
    private static Random random=new Random();
    private static final int ELEMENTS=10;

    public static void max()
    {
        int nextNumber;
        int max=Integer.MIN_VALUE;
        System.out.println("The 10 random numbers in the range [0-99] are
: ");
        for( int i=1; i <=ELEMENTS; i++) {
            nextNumber=random.nextInt(100);
            System.out.println(nextNumber);
            if (max < nextNumber)
                max=nextNumber;
        }
        System.out.println("The maximum number is: "+ max);
        System.out.println();
    }//max

    public static void min()
    {
        int nextNumber;
        int min=Integer.MAX_VALUE;
        System.out.println("The 10 random numbers in the range [0-99] are
: ");
        for( int i=1; i <=ELEMENTS; i++) {
            nextNumber=random.nextInt(100);
            System.out.println(nextNumber);
            if (min > nextNumber)
                min=nextNumber;
        }
        System.out.println("The minimum number is: "+ min);
        System.out.println();
    }//min

    public static void minMax()
    {
        int nextNumber;
        int max=Integer.MIN_VALUE;
        int min=Integer.MAX_VALUE;
        System.out.println("The 10 random numbers in the range [0-99] are
: ");
        for( int i=1; i <=ELEMENTS; i++) {
            nextNumber=random.nextInt(100);
            System.out.println(nextNumber);
            if (max < nextNumber)
                max=nextNumber;
            if (min > nextNumber)
                min=nextNumber;
        }
    }
}
```

```

        }
        System.out.println("The maximum number is: "+ max);
        System.out.println("The minimum number is: "+ min);
        System.out.println();
    }//minMax

    public static void sum()
    {
        int nextNumber;
        int sum=0;
        System.out.println("The 10 random numbers in the range [0-99] are
: ");
        for( int i=1; i <=ELEMENTS; i++) {
            nextNumber=random.nextInt(100);
            System.out.println(nextNumber);
            sum += nextNumber; //isodunamo me to
        }
        System.out.println("The sum is: "+ sum);
        System.out.println();
    }//sum

    public static void product()
    {
        int nextNumber;
        float product=1; //Epeidh to 99^10 pou 8a prepei na upo
logisei
n integer kai long
        //i product einai polu megalutero apo ta oria tw
le) gia na min uparxei problema.
        System.out.println("The 10 random numbers in the range [0-99] are
: ");
        for( int i=1; i <=ELEMENTS; i++) {
            nextNumber=random.nextInt(100);
            System.out.println(nextNumber);
            product *= nextNumber; //isodunamo me to      product= produc
t * nextNumber;
        }
        System.out.println("The product is: "+ product);
        System.out.println();
    }//product

    public static void values()
    {
        System.out.println("Maximum value of int is: "+Integer.MAX_VALUE
);
        System.out.println("Maximum value of long is: "+Long.MAX_VALUE);
        System.out.println("Minimum value of int is: "+Integer.MIN_VALUE
);
        System.out.println("Minimum value of long is: "+Long.MIN_VALUE);
    }
}

```

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## Class WhileDemo\_1

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```
import java.util.Random;
public class WhileDemo_1
{
    // class variables
    private static Random random=new Random();
    private static final int ELEMENTS=10;

    public static void max()
    {
        int nextNumber;
        int max=Integer.MIN_VALUE;
        System.out.println("The 10 random numbers in the range [0-99] are
        : ");
        int i=1;
        while(i <=ELEMENTS)
        {
            nextNumber=random.nextInt(100);
            System.out.println(nextNumber);
            if (max < nextNumber)
                max=nextNumber;
            i++; //isodinamo me ta: i=i+1, kai i+=1;
        }
        System.out.println("The maximum number is: "+ max);
        System.out.println();
    }//max

    public static void min()
    {
        int nextNumber;
        int min=Integer.MAX_VALUE;
        System.out.println("The 10 random numbers in the range [0-99] are
        : ");
        int i=1;
        while(i <=ELEMENTS)
        {
            nextNumber=random.nextInt(100);
            System.out.println(nextNumber);
            if (min > nextNumber)
                min=nextNumber;
            i++;
        }
        System.out.println("The minimum number is: "+ min);
        System.out.println();
    }//min

    public static void minMax()
    {
        int nextNumber;
        int max=Integer.MIN_VALUE;
        int min=Integer.MAX_VALUE;
        System.out.println("The 10 random numbers in the range [0-99] are
        : ");
        int i=1;
```

## Class WhileDemo\_1 (continued)

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```
while(i <=ELEMENTS)
{
    nextNumber=random.nextInt(100);
    System.out.println(nextNumber);
    if (max < nextNumber)
        max=nextNumber;
    if (min > nextNumber)
        min=nextNumber;
    i++;
}
System.out.println("The maximum number is: "+ max);
System.out.println("The minimum number is: "+ min);
System.out.println();
}//minMax

public static void sum()
{
    int nextNumber;
    int sum=0;
    System.out.println("The 10 random numbers in the range [0-99] are
:");
    int i=1;
    while(i <=ELEMENTS)
    {
        nextNumber=random.nextInt(100);
        System.out.println(nextNumber);
        sum += nextNumber; //isodunamo me to sum= sum + nextNumber
;
        i++;
    }
    System.out.println("The sum is: "+ sum);
    System.out.println();
}//sum

public static void product()
{
    int nextNumber;
    float product=1; //Epeidh to 99^10 pou 8a prepei na mporei na upo
logisei
                //i product einai polu megalutero apo ta oria tw
n integer kai long
                //Pame stou pragmatikous ari8mous (float - dou
le) gia na min uparxei problhma.
    System.out.println("The 10 random numbers in the range [0-99] are
:");
    int i=1;
    while(i <=ELEMENTS)
    {
        nextNumber=random.nextInt(100);
        System.out.println(nextNumber);
        product *= nextNumber; //isodunamo me to product= produc
t * nextNumber;
        i++;
    }
}
```

## Class WhileDemo\_1 (continued)

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```
        }
        System.out.println("The product is: "+ product);
        System.out.println();
    }//product

    public static void values()
    {
        System.out.println("Maximum value of int is: "+Integer.MAX_VALUE
);
        System.out.println("Maximum value of long is: "+Long.MAX_VALUE);
        System.out.println("Minimum value of int is: "+Integer.MIN_VALUE
);
        System.out.println("Minimum value of long is: "+Long.MIN_VALUE);
    }
}
```

