## Draw 3D Rectangle & Square in Applet Window Example

```
Import java.applet.Applet;
import java.awt.Color;
import java.awt.Graphics;
public class Draw3DRectanglesExample extends Applet
{
        public void paint(Graphics g)
        {
                g.setColor(Color.green);
                g.draw.3DRect(10,10,50,100,true);
                g.draw3DRect(100,100,50,50,true);
                g.setColor(Color.range);
                 g.fill3DRect(10,150,50,100,true);
                 g.fill3DRect(100,200,50,50,true);
        }
}
```

## To Check Armstrong number or not

```
import java.util.Scanner;

class ArmstrongNumber
{
  public static void main(String args[])
  {
    int n, sum = 0, temp, remainder, digits = 0;

    Scanner in = new Scanner(System.in);
    System.out.println("Input a number to check if it is an Armstrong number");
    n = in.nextInt();

    temp = n;
      while (temp != 0) {
      digits++;
      temp = temp/10;
    }

    temp = n;

    while (temp != 0)
    {
            remainder = temp%10;
            sum = sum + power(remainder, digits);
            temp = temp/10;
    }
```

```java
    if (n == sum)
      System.out.println(n + " is an Armstrong number.");
    else
      System.out.println(n + " is not an Armstrong number.");
  }

  static int power(int n, int r) {
    int c, p = 1;
static int power(int n, int r) {
    int c, p = 1;

    for (c = 1; c <= r; c++)
      p = p*n;

    return p;
  }
}
```

Febonacci Number

```java
import java.util.Scaner;
public class Fibonacci
{
      public static void main(String [] args)
      {
            int n,a=0,b=0,c=1;
            System.out.printIn("Fibonacci Serise:");
            for(int i=1;i<=100;i++)
            {
                  a=b;
                  b=c;
                  c=a+b;
                  Syatem.out.print(a+" ");
            }
      }
}
```

Decimal to Binary convert

```java
      class DecimalBinaryExample
      {
            public static void min(String a[])
            {
                  System.out.printIn("Binary representation of 124:");
                  System.out.printIn(Integer.tobinaryString(124));
                  System.out.printIn("\n Binary representation of 45 :");
```

```
                System.out.PrintIn(Integer.toBinaryString(45));
                System.out.PrintIn("\n Binary representagetion of 999:";);
                System.out.PrintIn(Integer.toBinaryString(999));
        }
}
```

## Convert HexaDecimal to Binary

```
import java.until.Scaner;
Public class java program
{
        public ststic int hexadeciml (String s)
        {
                String digits ="0123456789ABCDEF";
                s=s.toUpperCase();
                int val=0;
                for(int i=0;i<s.length();i++)
                {
                        char c=s.charAt(i);
                        int d=digits.indexof(c);
                        val=16*val+d;
                }
                return val;
        }
        public static void main(String args[])
        {
                String hexadecnum;
                int decnum, i=1,j;
                int binnum[]=new Scanner(System.in);
                System scan=new Scanner(System.In);
                System.out.print("Enter Hexadecimal Number:");
                hexadecimal=scan.nextLine();
                decnum=hex2decimal(hexdecnum);
                while(decnum!=0)
                {
                        binnum[i++]=decimal%2;
                        decimal=decimal/2;
                }
                System.out.print("Equuivalent Binary Number is :\n";);
                for(j=i-1;j>0;j--)
                {
                        System.out.print(binnum[j]);
                }
        }
}
```

### Java Program to Count number of Vowles presen in a string

```java
import java.util.Scanner;
class vowels
{
        public static void main(String args[])
        {
                String str;
                int count=0;
                char[] vowels=new char[] {'a','e','i','o','u'};
                Scanner get=new Scanner(System.In);
                System.out.printIn("Enter a String:");
                str=get.nextLine().toLowerCase();
                for(int i=0;i<str.Length();i++)
                {
                        for(int j=0;j<5;j++)
                        {
                                if((str.charAt(i))==vowels[j])
                                {
                                        count++;
                                }
                        }
                }
                if(count>1)
                {
                        System.out.PrintIn("Number of Vowels present in the given
                        String :"+count);
                }
                else
                {
                        System.out.PrintIn("there are no vowels present in the given
                        String !");
                }
        }
}
```

### Java Program Code to find Largest of two Numbers

```java
import java.util.Scanner;
public class JavaProgram
{
        public static void main(String args[])
        {
                int a,b,big;
```

```java
        Scanner scan=new Scnner(System.In);
        System.out.printIn("Enter two Numeber:");
        a=scan.nextInt();
        b=scan.nextInt();
        if(a>b)
        {
                big=a;
        }
        else
        {
                big=b;
        }
        System.out.print("Largest of Two Number is"+big);
    }
}
```

## GCD & LCM

```java
import java util.Scanner;
public class GCD_LCM
{
    static int gcd(int x,int y)
    {
        int r=0,a,b;
        a=(x>y)?x:y;
        b=(x>y)?x:y;
        r=b;
        while(a%b!=0)
        {
                r=a%b;
                a=b;
                b=r;
        }
        return r;
    }
    static int lcm(int int x,int y)
    {
        int a;
        a=(x>y)?x:y;
        while(true)
        {
                if(a%x==0&& a%y==0)
                return a;
                ++a;
        }
```

```java
        }
        public static void main(string args[])
        {
                Scanner input=new Scanner(Syatem.in);
                System.out.PrinIn("Enter the two Numbers:");
                int x=input.nextInt();
                int y=input.nextInt();
                system .out.PrintIn("The GCD of two numbers is :");
                System.out.Printin("The LCM of two numbers is: ");
                input.close();
        }
}
```

## Floyd's triangle

```java
import java.util.Scanner;
class FloyedTiangleExample
{
        public static void main(String args[])
        {
                int rows,number=1,counter,j;
                Scanner input=new Scanner(System.in);
                System.out.printIn("Enter the number of number of rows for floyd's
                triangle");
                rows=input.nextInt();
                system.out.printIn("Floyed's triangle");
                system.out.printIn("*****************");
                for(counter=1;counter<=rows;counter++)
                {
                        for(j=1;j<=counter;j++)
                        {
                                system.out.PrintIn(number+"");
                                number++;
                        }
                        system.out.printIn();
                }
        }
}
```