Q2) import javax.swing.JOptionPane;

public class Wordgame{

    public static void main(String[] args)

        {

                String name;

                name= JOptionPane.showInputDialog("Enter your name");

                String age;

                age= JOptionPane.showInputDialog("Enter your age");

                String city;

                city= JOptionPane.showInputDialog("Enter the name of a city");

                String college;

                college= JOptionPane.showInputDialog("Enter the name of a college");

                String profession;

                profession= JOptionPane.showInputDialog("Enter profession");

                String animal;

                animal= JOptionPane.showInputDialog("Enter a type of animal");

                String pet;

                pet= JOptionPane.showInputDialog("Enter a pet name");

                String str="There once was a person named "+ name+

                        " \n who lived in CITY. At the age of "+age+

                        ", "+ name +" went to college at \n"+ college+" ."+ name

                        +" graduated and went to work as a \n"+profession+" . Then, "+ name

                        +" adopted a(n) "+ animal +" \n named "+ pet+

                        ". They both lived happily ever after!";

                JOptionPane.showMessageDialog(null, str);

            }

        }

Q4)

import java.util.Scanner;

public class Galloanpermiles{

    public static void main(String[] args)

    {

        Scanner scan = new Scanner(System.in);

        System.out.println("Enter miles travelled : ");

        double miles = scan.nextDouble();

        System.out.println("Enter gallons : ");

        double gallons= scan.nextDouble();

        double mpg=miles/gallons;

        System.out.println("miles per gallons = "+mpg);

    }

}

Q8)

import java.util.Scanner;

public class Yearandminute{

    public static void main(String[] args)

    {

        Scanner input = new Scanner(System.in);

    // Prompt user for number of minutes

    System.out.println("Enter the number of minutes:");

    int minutes = input.nextInt();

     // Number of minutes in a year

    int year = minutes / 525600;

    int day = minutes / 1440;

    int remainingMinutes = day % 525600;

    System.out.println(minutes + " minutes is " + year + " years and "  +  remainingMinutes + " days ");

    }

   }

Q6)

import java.util.Scanner;

public class Performanceofemployee{

    public static void main(String[] args){

    Scanner reader = new Scanner(System.in);

    double perf, sal;

    System.out.print("Enter performance level: ");

    perf = reader.nextDouble();

    System.out.print("Enter base salary: ");

    sal = reader.nextDouble();

    if (perf >= 90){

        sal += sal \* 3/100;

    }

    System.out.println("Salary is " + sal);

}

}

Q13) A

public class Parttern{

    public static void main(String[] args){

            for (int count =0; count < 10; count++)

            {

                for (int j=0; j < count+1; j++)

                System.out.print("\*");

                System.out.println();

            }

        }

    }

B)

public class Parttern{

    public static void main(String[] args){

            for (int count =11; count >= 0; count--)

            {

                for (int j=0; j < count-1; j++)

                System.out.print("\*");

                System.out.println();

            }

        }

    }

C

public class Parttern{

    public static void main(String[] args)  {

        for(int count = 0; count < 10; count++)

        {

            for(int index=1; index < count+1; index++)

            System.out.print(" ");

            for(int star=10; star > count; star--)

            System.out.print("\*");

            System.out.println();

        }

    }

}

D

public class Parttern{

    public static void main(String[] args)  {

            for (int count = 10; count > 0; count--) {

                for (int index = 0; index < count - 1; index++)

                    System.out.print(" ");

                for (int star = 10; star > count - 1; star--)

                    System.out.print("\*");

                System.out.println();

            }

        }

        }

Q7)

import java.util.Scanner;

public class Operation{

    public static void main(String[] args)  {

        int temp1, temp2, num1, num2, temp, hcf, lcm;

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter First Number: ");

        num1 = scanner.nextInt();

        System.out.print("Enter Second Number: ");

        num2 = scanner.nextInt();

        scanner.close();

        temp1 = num1;

        temp2 = num2;

        while (temp2 != 0) {

            temp = temp2;

            temp2 = temp1 % temp2;

            temp1 = temp;

            hcf = temp1;

            lcm = (num1 \* num2) / hcf;

            System.out.println("HCF of input numbers: " + hcf);

            System.out.println("LCM of input numbers: " + lcm);

        }

    }

}