Problem 1:

import java.util.Scanner;

public class num{

public static void main(String[] args){

int n;

Scanner sin=new Scanner(System.in);

System.out.println("Enter a number between -1000 to 1000");

n=sin.nextInt();

if(n>0){

pos(n);

}

else{

neg(n);

}

}

public static void pos(int n){

n--;

while(n>-1){

System.out.println(n);

n--;

}

}

public static void neg(int n){

while(n<1){

System.out.println(n);

n++;

}

}

}

Problem 2:

import java.util.Scanner;

public class ATM

{

public static void main(String[] args) {

Scanner sin=new Scanner(System.in);

int PIN=1234, bal=0,choice,p;

System.out.print("Enter the PIN: ");

int pin=sin.nextInt();

if(pin==PIN){

do{

System.out.println("1. Deposit\n2.Withdraw\n3. Balance Enquiry\n4. PIN Change\n5. Exit");

choice=sin.nextInt();

switch(choice){

case 1: System.out.print("Enter the amount to be deposited: ");

int amt=sin.nextInt();

bal = deposit(amt,bal);

break;

case 2: System.out.print("Enter the amount to Withdraw: ");

int wth=sin.nextInt();

bal = withdraw(wth,bal);

break;

case 3: System.out.println("Available Balance is: "+bal);

break;

case 4: System.out.print("Enter the existing PIN: ");

p=sin.nextInt();

if(p==PIN){

PIN = pinchange(p,PIN);

}

else

System.out.println("Invalid PIN");

break;

case 5: System.exit(0);

default: System.out.println("Invalid Input");

}

}while(choice!=5);

}

else

System.out.println("Invalid PIN Number");

}

static int deposit(int amt, int bal){

if((amt%100==0)&&(amt>0)){

bal+=amt;

System.out.println("Amount deposited is:"+amt);

System.out.println("Available balance is: "+bal);

}

else

System.out.println("Invalid Amount Entered");

return bal;

}

static int withdraw(int wth, int bal){

if((wth%100==0)&&(wth>0)&&(wth<=bal)){

bal-=wth;

}

else

System.out.println("Amount entered is invalid or Insufficient balance");

System.out.println("Available balance is: "+bal);

return bal;

}

static int pinchange(int p, int PIN){

int pin1, pin2;

System.out.print("Enter new PIN: ");

Scanner s=new Scanner(System.in);

pin1=s.nextInt();

do{

System.out.print("Enter PIN to re-confirm: ");

pin2=s.nextInt();

if(pin1==pin2){

System.out.println("PIN changed successfully!!");

PIN=pin1;

}

else{

System.out.println("PIN does not match... Re-Enter the PIN");

pin2=s.nextInt();

}

}while(pin1!=pin2);

return PIN;

}

}

Problem 3:

import java.util.Scanner;

public class prime{

public static void main(String[] args){

int n,m;

Scanner sin=new Scanner(System.in);

System.out.println("Enter two numbers");

n=sin.nextInt();

m=sin.nextInt();

System.out.println(SumPrime(n,m));

}

public static boolean SumPrime(int n, int m){

for(int i=3;i<n;i++){

if(n%i==0){

return false;

}

}

for(int i=3;i<m;i++){

if(m%1==0){

return false;

}

}

int sum=m+n;

for(int i=3;i<sum;i++){

if(sum%i==0){

return false;

}

}

return true;

}

}

Problem 4:

import java.util.Scanner;

public class stringjoin{

public static void main(String[] args){

String s;

int n;

Scanner sin=new Scanner(System.in);

System.out.println("Enter the string and the number of repetition");

s=sin.nextLine();

n=sin.nextInt();

stringTimes(s,n);

}

public static void stringTimes(String s, int n){

String res="";

for(int i=0;i<n;i++){

res+=s;

}

System.out.println(res);

}

}