**package** techademy;

**import** java.util.Scanner;

**public** **class** Assignment1Question1 {

**public** **static** **void** checkForTheNumber(**int** n) {

**if**(n>=20 && n<=30) {

**if**(n%2==0) {

System.***out***.println("Jerry");

}**else** {

System.***out***.println("Tom");

}

}

}

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

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

**int** number=sc.nextInt();

*checkForTheNumber*(number);

}

}

**package** techademy;

**import** java.util.Scanner;

**public** **class** Assignment1Question2 {

**public** **static** **void** checkIfPalindrome(**long** n) {

**long** x=n;

**long** temp=0;

**while**(x>0) {

temp=temp\*10+(x%10);

x/=10;

}

**if**(temp!=n) {

System.***out***.println(n+" is not a palindrome");

}**else** {

**long** sum=0;

**while**(temp>0) {

**if**((temp%10)%2==0) {

sum+=temp%10;

}

temp/=10;

}

**if**(sum>25) {

System.***out***.println(n +" is palindrome and the sum of even numbers is greater than 25");

}**else** {

System.***out***.println(n+" is palindrome and sum of even numbers is less than 25");

}

}

}

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

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

**long** number=sc.nextLong();

*checkIfPalindrome*(number);

}

}

package techademy;

import java.util.ArrayList;

import java.util.Scanner;

public class Assignment1Question3 {

public static void main(String[] args) {

ArrayList<Integer> list = new ArrayList<>();

Scanner sc = new Scanner(System.in);

System.out.println("Enter the numbers (type 'end' to finish):");

int totalSum = 0;

while (sc.hasNext()) {

if (sc.hasNextInt()) {

int number = sc.nextInt();

list.add(number);

totalSum += number;

} else {

String input = sc.next();

if(input.equals("end")) {

break;

}else {

System.out.println("Error: Non-integer value encountered: " + input);

return;

}

}

}

System.out.println("Input: " + list);

System.out.println("Output: " + totalSum);

sc.close();

}

}

package techademy;

import java.util.HashMap;

import java.util.Scanner;

public class Assignment1Question4 {

public static void main(String[] args) {

HashMap<Integer, Integer> map=new HashMap<>();

Scanner sc=new Scanner(System.in);

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

int num=sc.nextInt();

if(num<=0) {

System.out.println("not unique");

return;

}

int temp=num;

while(temp>0) {

int x=temp%10;

if(map.containsKey(x) || x==0) {

System.out.println("not unique");

return;

}

map.put(x, 1);

temp/=10;

}

System.out.println(num +" is unique");

return;

}

}