import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

public class NumberWords1

{

public static void main(String[] args) throws NumberFormatException, IOException

{

//Variable Declarations and Initializations

int tryAgain = 1, tensDigit, onesDigit, numInput;

while (tryAgain == 1)

{

int error = 1;

//to refresh error each time the loop repeats

BufferedReader br = new BufferedReader (new InputStreamReader (System.in));// user input

System.out.println("Numbers to Words (10-99 Edition)");

System.out.println("================================\n");

System.out.println("Input a number (10-99) and this program will repeat it to you with words.");

//to check if the user inputs a valid number

numInput=Integer.parseInt(br.readLine());

if (numInput < 10 || numInput > 99)

{

error = 0;

}//end if

while (error == 0)

{

System.out.println("Invalid number. Enter a number between 10 and 99.\n");

numInput=Integer.parseInt(br.readLine());//user must re-enter a number if they entered an invalid one

if (numInput >= 10 && numInput <= 99)

{

error = 1;

}

}//end loop

tensDigit = (int) (Math.floor(numInput % 100) / 10);

onesDigit = numInput % 10;

System.out.print("Your number in words is: ");

if(numInput >= 10 && numInput<=19)

{

teens(numInput);

}//end if

else

{

tens(tensDigit);

ones(onesDigit);

}//end if

System.out.println("\n\nPress 1 to try again.");

tryAgain = Integer.parseInt(br.readLine());//user decides to try again

}//end loop

}//end main

public static void tens(int tensDigit)

{

switch (tensDigit)

{

case 2: System.out.print("TWENTY ");

break;

case 3: System.out.print("THIRTY ");

break;

case 4: System.out.print("FOURTY ");

break;

case 5: System.out.print("FIFTY ");

break;

case 6: System.out.print("SIXTY ");

break;

case 7: System.out.print("SEVENTY ");

break;

case 8: System.out.print("EIGHTY ");

break;

case 9: System.out.print("NINETY ");

break;

default: System.out.print("");

}//end switch

}//closes tens method

public static void teens(int numInput)

{

switch (numInput)

{

case 10: System.out.println("TEN");

break;

case 11: System.out.println("ELEVEN");

break;

case 12: System.out.println("TWELVE");

break;

case 13: System.out.println("THIRTEEN");

break;

case 14: System.out.println("FOURTEEN");

break;

case 15: System.out.println("FIFTEEN");

break;

case 16: System.out.println("SIXTEEN");

break;

case 17: System.out.println("SEVENTEEN");

break;

case 18: System.out.println("EIGHTEEN");

break;

case 19: System.out.println("NINETEEN");

break;

}//end switch

}//closes teens method

public static void ones(int onesDigit)

{

switch (onesDigit)

{

case 1: System.out.print("ONE");

break;

case 2: System.out.print("TWO");

break;

case 3: System.out.print("THREE");

break;

case 4: System.out.print("FOUR");

break;

case 5: System.out.print("FIVE");

break;

case 6: System.out.print("SIX");

break;

case 7: System.out.print("SEVEN");

break;

case 8: System.out.print("EIGHT");

break;

case 9: System.out.print("NINE");

break;

default: System.out.print("");

}//end switch

}//closes ones method

}//end class