**PROGRAMA PRINCIPAL (TESTADOR)**

package teste01;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner tela = new Scanner(System.in);

int hora, min, seg;

boolean resp = true;

do {

System.out.print("Digite o valor da hora: ");

hora = tela.nextInt();

System.out.print("Digite o valor dos minutos: ");

min = tela.nextInt();

System.out.print("Digite o valor dos segundos: ");

seg = tela.nextInt();

if(hora >= 0 && hora <= 23 && min >= 0 && min < 60 && seg >= 0 && seg < 60) {

resp = false;

}

}

while(resp);

Hora h = new Hora(hora, min, seg);

System.out.println(h.getHora1());

System.out.println(h.getHora2());

System.out.printf("Total de segundos: %d",h.getSegundos());

}

}

**CLASSE – Hora.java**

package teste01;

public class Hora {

private int hora;

private int min;

private int seg;

private int second\_hour;

public Hora() {

this.hora = 0;

this.min = 0;

this.seg = 0;

}

public Hora(int h, int m, int s) {

this.hora = h;

this.min = m;

this.seg = s;

this.second\_hour = h;

}

public void setHor(int h) {

this.hora = h;

}

public void setMin(int m) {

this.min = m;

}

public void setSeg(int s) {

this.seg = s;

}

public int getHor() {

return hora;

}

public int getMin() {

return min;

}

public int getSeg() {

return seg;

}

public String getHora1() {

if(this.hora < 10) {

if(this.min < 10 && this.seg >= 10) {

return "Hora: 0" + this.hora + ":0" + this.min + ":" + this.seg;

}

else if(this.min >= 10 && this.seg < 10) {

return "Hora: 0" + this.hora + ":" + this.min + ":0" + this.seg;

}

else if(this.min < 10 && this.seg < 10) {

return "Hora: 0" + this.hora + ":0" + this.min + ":0" + this.seg;

}

else {

return "Hora: 0" + this.hora + ":" + this.min + ":" + this.seg;

}

}

else {

if(this.min < 10 && this.seg >= 10) {

return "Hora: " + getHor() + ":0" + this.min + ":" + this.seg;

}

else if(this.min >= 10 && this.seg < 10) {

return "Hora: " + getHor() + ":" + this.min + ":0" + this.seg;

}

else if(this.min < 10 && this.seg < 10) {

return "Hora: " + getHor() + ":0" + this.min + ":0" + this.seg;

}

else {

return "Hora: " + getHor() + ":" + this.min + ":" + this.seg;

}

}

}

public String getHora2() {

if(this.hora >= 12) {

switch(hora) {

case 13:

setHor(1);

break;

case 14:

setHor(2);

break;

case 15:

setHor(3);

break;

case 16:

setHor(4);

break;

case 17:

setHor(5);

break;

case 18:

setHor(6);

break;

case 19:

setHor(7);

break;

case 20:

setHor(8);

break;

case 21:

setHor(9);

break;

case 22:

setHor(10);

break;

case 23:

setHor(11);

break;

}

if(this.min < 10 && this.seg >= 10) {

return "Hora: " + this.hora + ":0" + this.min + ":" + this.seg + " PM";

}

else if(this.min >= 10 && this.seg < 10) {

return "Hora: " + this.hora + ":" + this.min + ":0" + this.seg + " PM";

}

else if(this.min < 10 && this.seg < 10) {

return "Hora: " + this.hora + ":0" + this.min + ":0" + this.seg + " PM";

}

else {

return "Hora: " + this.hora + ":" + this.min + ":" + this.seg + " PM";

}

}

else if(this.hora < 10){

if(this.min < 10 && this.seg >= 10) {

return "Hora: 0" + this.hora + ":0" + this.min + ":" + this.seg + " AM";

}

else if(this.min >= 10 && this.seg < 10) {

return "Hora: 0" + this.hora + ":" + this.min + ":0" + this.seg + " AM";

}

else if(this.min < 10 && this.seg < 10) {

return "Hora: 0" + this.hora + ":0" + this.min + ":0" + this.seg + " AM";

}

else {

return "Hora: 0" + this.hora + ":" + this.min + ":" + this.seg + " AM";

}

}

else {

return "Hora: " + this.hora + ":" + this.min + ":" + this.seg + " AM";

}

}

public int getSegundos() {

int r = ((this.second\_hour \* 60 \* 60) + (this.min \* 60) + (this.seg));

return r;

}

}