**public class JavaBasics**

{

//variables that can be used in this class

int age=16;

int height=180;

String name="bob";

String sex="m";

public void conditions(){

if (age==16){

System.out.println("You are 16");

}

if (age>=16){

System.out.println("You are 16 or older");

}

if (name.equals("bob") == true){

System.out.println("Name is bob");

}

if (age != 100){

System.out.println("You are not 100");

}

if ( (age>=13) && (age<=19) ){

System.out.println("You are a teenager");

}

if ( !(age>=16) ){

System.out.println("You are not old enough to drive yet!");

}

if ( (age>16) || (height>150) ){

System.out.println("You age OR height OR Both qualify you!");

}

if ( (age>16) && (height>150) && (name.equals("bob")==true) ){

System.out.println("You pass all three tests - come on in!");

}

if ( ((age>16) && (height>150)) || (height>200) ){

System.out.println("You can ride the roller coaster");

}

if (age>=65){

System.out.println("You are a senior");

}

else{

System.out.println("You are not a senior");

}

if (age>=65){

System.out.println("You are a senior");

}

else if(age>=18){

System.out.println("You are an adult");

}

if (age>=65){

System.out.println("You are a senior");

}

else if(age>=18){

System.out.println("You are an adult");

}

else{

System.out.println("You are a youth");

}

if(age>=18){

if(sex.equals("m") == true){

System.out.println("You are an adult male");

}

else{

System.out.println("You are an adult female");

}

}

else{

if(sex.equals("m") == true){

System.out.println("You are a male youth");

}

else{

System.out.println("You are a female youth");

}

}

}//end of conditions method

public void loops(){

UserInput UI = new UserInput();

int num1, num2, sum, temp;

String pw;

num1=1;

do{

System.out.println(num1);

num1 = num1 + 1;

}while(num1<10);

for (int k=1; k<10; k=k+1){

System.out.println(k);

}

num1=10;

do{

System.out.println(num1\*10);

num1 = num1 - 10;

}while(num1>0);

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

System.out.println(k\*10);

}

num1=50;

num2=70;

while(num1<num2){

System.out.println("num1 is " + num1 + " and num2 is " + num2);

num1 = num1 + 1;

num2 = num2 - 1;

}

num2=70;

for (num1=50; num1<num2; num1 = num1 + 1, num2 = num2 - 1){

System.out.println("num1 is " + num1 + " and num2 is " + num2);

}

num1=0;

do{

num1 = UI.getInteger("Enter a number LARGER than 100");

}while(num1<=100);

num1=0;

do{

num1 = UI.getInteger("Enter a number LARGER than 100");

}while( !(num1>100) );

do{

pw = UI.getString("Enter the pw! (hint: teacher's name)");

}while(pw.equals("janetka") == false);

num1=UI.getInteger("Enter a number between 10-20");

do{

System.out.println("num1 is going down... " + num1);

num1 = num1 - 1;

}while(num1>=0);

num1=UI.getInteger("Enter a number between 10-20");

for (int k=num1; k>=0; k=k-1){

System.out.println("num1 is going down... " + k);

}

num1=UI.getInteger("Enter a starting number");

num2=UI.getInteger("Enter an ending number");

int counter = num1;

while(counter<=num2){

System.out.println("Counting... " + counter);

counter = counter + 1;

}

sum = 0;

for (int k=1; k<=4; k=k+1){

num1 = UI.getInteger("Enter a number");

sum = sum + num1;

}

System.out.println("The sum of the numbers is " + sum);

sum = 0;

System.out.println("Please enter 4 numbers larger than 0");

for (int k=1; k<=4; k=k+1){

do{

num1 = UI.getInteger("Enter a number larger than 0");

if (num1<=0){

System.out.println("Sorry, that number doesn't count!");

}

}while(num1<=0);

sum = sum + num1;

}

System.out.println("The sum is " + sum);

}//end of loops

}//end of class