**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