**import** java.util.Scanner;

**public** **class** Calculator {

**static** **char** *operation*;

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

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

String start= "yes";

**while**(start.equalsIgnoreCase("yes")){

System.***out***.println("Enter the calculator mode: Standard/Scientific?");

String typeOfCalc= *in*.next();

**if**(typeOfCalc.equalsIgnoreCase("Standard")){

System.***out***.println("Which operation would you like to use?");

*operation*= *in*.next().charAt(0);

System.***out***.println("How many numbers you want to enter?");

**int** qnum =*in*.nextInt();

**while**( *operation* != '+' && *operation* != '-' && *operation* != '\*' && *operation* != '/' ){

System.***out***.println("Your operation was invalid. Which operation would you like to use?");

*operation*= *in*.next().charAt(0);

}

System.***out***.println("What is the first value?");

**double** answer = *in*.nextDouble();

**for**(**int** i = 1; i< qnum; i++){

System.***out***.println("What is the next value?");

**switch**(*operation*){

**case** '+':

answer = answer+*in*.nextDouble();

**break**;

**case** '-':

answer = answer-*in*.nextDouble();

**break**;

**case** '\*':

answer = answer\**in*.nextDouble();

**break**;

**case** '/':

answer = answer/*in*.nextDouble();

**break**;

}

}

System.***out***.println("Answer: " + answer);

}

**else** **if**(typeOfCalc.equalsIgnoreCase("Scientific")){

System.***out***.println("Which operation would you like to use? ");

typeOfCalc = *in*.next();

System.***out***.println("You choosed " + typeOfCalc +".");

**if**(typeOfCalc.equals("sin")){

System.***out***.println("Which int would you like calculate? ");

**int** x=*in*.nextInt();

**double** value= Math.*sin*(x);

System.***out***.println(value);

}

**if**(typeOfCalc.equals("cos")){

System.***out***.println("Which int would you like calculate? ");

**int** x=*in*.nextInt();

**double** value= Math.*cos*(x);

System.***out***.println(value);

}

**if**(typeOfCalc.equals("tan")){

System.***out***.println("Which int would you like calculate? ");

**int** x=*in*.nextInt();

**double** value= Math.*tan*(x);

System.***out***.println(value);

}

**else** **if**(typeOfCalc.equals("\*")||typeOfCalc.equals("/")||typeOfCalc.equals("+")||typeOfCalc.equals("-")){

System.***out***.println("How many numbers you want to enter?");

**int** znum =*in*.nextInt();

System.***out***.println("What is the first value?");

**double** answer = *in*.nextDouble();

**for**(**int** i = 1; i< znum; i++){

System.***out***.println("What is the next value?");

**switch**(typeOfCalc){

**case** "+":

answer = answer+*in*.nextDouble();

**break**;

**case** "-":

answer = answer-*in*.nextDouble();

**break**;

**case** "\*":

answer = answer\**in*.nextDouble();

**break**;

**case** "/":

answer = answer/*in*.nextDouble();

**break**;

}

}

System.***out***.println("Answer: " + answer);

}

}

System.***out***.println("startover?");

start =*in*.next();

}

}

}