

Forum:[Hack Forums](#)

Thread: [\[TUT\]Your First Calculator in Four Easy Steps\[TUT\]](#)

eXero - February 21, 2010, 4:12 pm

Java Calculator

Step 1.

1.1 Open Netbeans, and create new project.

1.2 Title it whatever you want.

1.3 Click "Finish" to start the project.

Spoiler [\(Click to View\)](#)

[img]http://i50.[censored].com/2lif0q9.png[/img]

Step 2.

Put this code in the program:Spoiler [\(Click to View\)](#)

Code import java.util.Scanner;

```
/**
 *
 * @author eXero
 */
public class Main {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        Scanner keyboard = new Scanner(System.in);
        String operator;

        double result = 0;
        System.out.println("Please enter a number:");

        double num1 = keyboard.nextDouble();
        System.out.println("Please enter another number:");

        double num2 = keyboard.nextDouble();

        System.out.println("Enter an expression: ");
        operator = keyboard.next();
        if (operator.equals("+"))
            result = num1 + num2;
        if (operator.equals("-"))
            result = num1 - num2;
        if (operator.equals("/"))
            result = num1 / num2;
        if (operator.equals("*"))
            result = num1 * num2;
        System.out.println(num1 + operator + num2 + "=" + result);
    }
}
```

```
}
```

```
}
```

PIC:

Spoiler ([Click to View](#))

[img]http://i47.[censored].com/1zldix0.png[/img]

You should now have the coding done.

Step 4.

Click "Run" and you should now have a working calculator.

Spoiler ([Click to View](#))

[img]http://i45.[censored].com/ixyqes.png[/img]

I hope you liked my tutorial. Please give me credits for this code, and thread. Please post a reply.

kenneth1395 - February 21, 2010, 4:21 pm

Nice Calculator, more advanced than the calculator at

<http://www.youtube.com/watch?v=ANuuSFY2BbY&feature=SeriesPlayList&p=FE2CE09D83EE3E28?>

eXero - February 21, 2010, 4:22 pm

ok cool. thanks for the reply.

Psycho - February 21, 2010, 5:18 pm

What is so 'advanced' about this calculator? It doesn't even check for division by zero. You don't need to, you can let Java print its stack trace to the user, but what are they going to do with that? Catch the exception and recover 'gracefully.'

eXero - February 21, 2010, 5:42 pm

there is no need to devide by zero. it is a known fact that deviding by zero is impossible. the thing that makes this advanced is that this calculator does not only do one function like addition. it does what ever you request.

Psycho - February 21, 2010, 5:50 pm

(Feb 21, 2010 06:42 PM)Co-exist aka eXero Wrote: [\[CITE\]](#) there is no need to devide by zero. it is a known fact that deviding by zero is impossible.

I know this... I said you check for division by zero so when the user tries dividing by zero they aren't presented with an ugly stack trace.

Quote:the thing that makes this advanced is that this calculator does not only do one function like addition. it does what ever you request.

That's not advanced, that's what a calculator should be at minimum.

eXero - February 21, 2010, 6:01 pm

dude, if you dont like my tut get off my thread. this tut id advanced because the most basic calculators that someone makes in java are only able to do one operation, so this one can do all of them. therefore it is advanced.

scaryblackguy - February 21, 2010, 6:01 pm

(Feb 21, 2010 06:42 PM)Co-exist aka eXero Wrote: [\[CITE\]](#) there is no need to divide by zero. I think you misunderstood...

lol (Feb 21, 2010 07:01 PM)Co-exist aka eXero Wrote: [\[CITE\]](#) dude, if you don't like my tut get off my thread. this tut is advanced because the most basic calculators that someone makes in java are only able to do one operation, so this one can do all of them. therefore it is advanced.
It's not really a tutorial - you never explain how the code works.

eXero - February 21, 2010, 6:02 pm

well, it's simple. it only takes a little reading. it will ask you for a number and then another number and then it asks what operation you would like to do.

kenneth1395 - February 21, 2010, 6:30 pm

Why are you guys constantly flaming him for sharing a calculator he wrote? You don't have to keep bashing him telling him it's "Not advanced enough". It's a calculator.

scaryblackguy - February 21, 2010, 6:48 pm

How is pointing out a lack of explanation flaming?

kenneth1395 - February 21, 2010, 7:00 pm

It just seemed like you guys were flaming him for no reason, all he was doing was sharing his calculator. Nevermind.

Fizzix - February 21, 2010, 7:02 pm

(Feb 21, 2010 06:42 PM)Co-exist aka eXero Wrote: [\[CITE\]](#) there is no need to divide by zero. it is a known fact that dividing by zero is impossible. the thing that makes this advanced is that this calculator does not only do one function like addition. it does whatever you request.

Dividing by zero is not impossible... You can divide 0 by itself, using L'Hôpital's rule...

Anyway, this isn't really advanced, it's a basic calculator, considering it doesn't have things like powers, logs, algebraic expressions, etc.

An advanced calculator should have graphing functions as well as a CAS.

But, nonetheless it's a decent calculator.

eXero - February 22, 2010, 6:27 pm

But it's advanced for a basic calculator that you create when you first learn java. if you don't like it then get off my thread.

Fizzix - February 22, 2010, 7:03 pm

If it's an advanced version of a basic calculator then it's still a basic calculator, not an advanced one...

And I never said I didn't like it, I'm just saying it's mislabeled.

As you can see, my calculator, that is more advanced than this one is labeled as basic, because it is.

Postmortis - February 23, 2010, 12:11 am

Good basic calculator,

Slightly modified to so it gives you an error when you divide by zero unless you divide 0 by 0 itself if your interested...

Spoiler ([Click to View](#))

```
import java.util.Scanner;

/
 @author Co-exist aka eXero /
public class Main {

    /
    @param args the command line arguments
    /
    public static void main(String[] args)
    {
        Scanner keyboard = new Scanner(System.in);
        String operator;

        double result = 0;
        System.out.println("Please enter a number:");

        double num1 = keyboard.nextDouble();
        System.out.println("Please enter another number:");

        double num2 = keyboard.nextDouble();

        System.out.println("Enter an expression: ");
        operator = keyboard.next();
        if (operator.equals("+"))
        {
            result = num1 + num2;
            System.out.println("\n" + num1 + operator + num2 + "=" + result + "\n" );
        }
        else if (operator.equals("-"))
        {
            result = num1 - num2;
            System.out.println("\n" + num1 + operator + num2 + "=" + result + "\n" );
        }
        else if (operator.equals("*"))
        {
            result = num1 * num2;
            System.out.println("\n" + num1 + operator + num2 + "=" + result + "\n" );
        }
        if (operator.equals("/"))
        {
            if ((num1 == 0) && (num2 == 0))
            {
                System.out.println("\n" + num1 + operator + num2 + "=" + result + "\n" );
            }
            else if ((num1 != 0) && (num2 == 0))
            {
                System.out.println("Error: Division by zero is not allowed.\n");
            }
        }
    }
}
```

```

        System.out.println ("\n" + "Cannot Divide by Zero mate" + "\n" + "\n");
    }
    else
    {
        result = num1 / num2;
        System.out.println("\n" + num1 + operator + num2 + "=" + result + "\n" );
    }
}

}

}

```

I am not flaming, just posting this if you wanted to find out how to fix this 'problem'.

Batch™ - February 23, 2010, 9:44 am

I like it..I mean im not into Java im into Python but still this is a good and easy tutorial even I could understand.

TheBlackMarket - February 23, 2010, 1:29 pm

Thanks Mate =). This was helpful. Good Share.

eXero - February 23, 2010, 3:28 pm

thanks all you positive commenters. and thanks postmortis for you zero deviation source code.

pro-phhecy - November 13, 2010, 8:44 am

I know i'm bringing this thread back from the grave, but I am a just starting java as of Wednesday and I was wondering if it was possible to put a space between the numbers. I put a space around the " = " so the result and second number would be space out, but my problem was figuring out a way to put a space around the operator. Since operator could be 1 of 4 commands, how would you right the if statement for each command to put a space around the operator. If you know what I'm trying to describe...

Ben121 - November 13, 2010, 8:49 am

(Nov 13, 2010 09:44 AM)pro-phhecy Wrote: [\[CITE\]](#) I know i'm bringing this thread back from the grave, but I am a just starting java as of Wednesday and I was wondering if it was possible to put a space between the numbers. I put a space around the " = " so the result and second number would be space out, but my problem was figuring out a way to put a space around the operator. Since operator could be 1 of 4 commands, how would you right the if statement for each command to put a space around the operator. If you know what I'm trying to describe...

At least your post isn't a retarded one like most grave digging posts.

Try something like this:

Code System.out.println(num1 + " " + operator + " " + num2 + " = " + result);Is that what you mean?

pro-phhecy - November 13, 2010, 8:57 am

yeah, that's exactly what I meant! I tried to put the space between the + signs like

Code System.out.println(num1 " " + operator " " + num2 + " = " + result);

when using a space in a calculation, do you always put (+) around a space? so it prints it or how

does that work?

and thanks once again Ben!

BeezyB - November 13, 2010, 7:20 pm

How is this an advanced calculator?

MrZander - November 13, 2010, 8:25 pm

Ehh it's not what I would call "advanced"

Maybe if it did like log and trig functions, or at the very least square roots and exponents

pro-phhecy - November 13, 2010, 11:28 pm

(Nov 13, 2010 08:20 PM)JBow94 Wrote: [\[CITE\]](#) How is this an advanced calculator?
read the entire post and you'll see that your post was redundant

BeezyB - November 14, 2010, 6:17 am

(Nov 14, 2010 12:28 AM)pro-phhecy Wrote: [\[CITE\]](#) read the entire post and you'll see that your post was redundant
Nah bro ?

It's a public forum for public opinions, if that's how I feel, I can most certainly express it ?

pro-phhecy - November 14, 2010, 6:26 am

(Nov 14, 2010 07:17 AM)JBow94 Wrote: [\[CITE\]](#) Nah bro ?

It's a public forum for public opinions, if that's how I feel, I can most certainly express it ?
I'm not saying you can't express it, but your question and answer has already been posed and answered, which makes it "seem" redundant.

BeezyB - November 14, 2010, 6:31 am

(Nov 13, 2010 09:44 AM)pro-phhecy Wrote: [\[CITE\]](#) I know i'm bringing this thread back from the grave, but I am a just starting java as of Wednesday and I was wondering if it was possible to put a space between the numbers. I put a space around the " = " so the result and second number would be space out, but my problem was figuring out a way to put a space around the operator. Since operator could be 1 of 4 commands, how would you right the if statement for each command to put a space around the operator. If you know what I'm trying to describe...
I'm not 100% sure what you're asking but maybe this little snippet of code will help:

```
Code System.out.println(String.format("1 + 2 = %1$d", 1 + 2));
```

Try that, is that what you meant by "space around the operator"?

Vuz - November 14, 2010, 6:51 am

fucking [censored].. meeehhhh -_--

eXero - November 14, 2010, 8:33 am

Sorry bout the pics. I don't even have the pics anymore.

Zeveso - November 14, 2010, 8:50 am

nice, but when I saw advanced I expected something a little more... well... advanced... :)
you should update it and add a GUI :)

eXero - November 14, 2010, 10:29 am

I don't have the time to update this sorry :P I may in the future though!

Fizzix - November 14, 2010, 10:44 am

(Nov 14, 2010 09:50 AM)Zeveso Wrote: [\[CITE\]](#) nice, but when I saw advanced I expected something a little more... well... advanced... :)

you should update it and add a GUI :)

Here is one with a GUI:

<https://hackforums.net/showthread.php?tid=283322>

eXero - November 14, 2010, 10:54 am

You just link to another thread, which links do a download or tutorial or something.

eXero - November 14, 2010, 1:27 pm

(Nov 14, 2010 02:04 PM)Fizzix Wrote: [\[CITE\]](#) What's your point? Explaining how to run code in Netbeans is hardly a tutorial for a calculator...

With an opinion like that, you can go somewhere else and post it. Not on my threads.

Dmaster_773 - January 10, 2011, 2:17 am

started java today (first language as well) tried to fix division by zero w/o help as challenge

```
if (operator.equals("/")){
    result = num1 / num2;
    if (num2 == 0){
        System.out.println("ERROR");
        System.out.close();
    }
}
```

So proud of myself :P

Morphene - January 10, 2011, 6:10 am

Lol I really never did Math first when I first started, I did it when I was a little bit more knowledgable in it.

Ben121 - January 10, 2011, 8:38 am

(Jan 10, 2011 03:17 AM)Dmaster_773 Wrote: [\[CITE\]](#) started java today (first language as well) tried to fix division by zero w/o help as challenge

```
if (operator.equals("/")){
    result = num1 / num2;
    if (num2 == 0){
        System.out.println("ERROR");
        System.out.close();
    }
}
```

So proud of myself :P

You should check if it is 0 before trying to divide them, using your method you will still get an exception.

eXero - January 10, 2011, 5:07 pm

Thanks for the advice Ben121!

Dmaster_773 - January 10, 2011, 11:30 pm

(Jan 10, 2011 09:38 AM)Ben121 Wrote: [\[CITE\]](#) You should check if it is 0 before trying to divide

them, using your method you will still get an exception.wouldn't you need to repeat all the processes (+,*,-,/) just for 0 in that case?

and it works fine, and doesn't give an answer

Ompet - January 11, 2011, 4:07 am

(Jan 10, 2011 03:17 AM)Dmaster_773 Wrote: [\[CITE\]](#) started java today (first language as well) tried to fix division by zero w/o help as challenge

```
if (operator.equals("/")){
    result = num1 / num2;
    if (num2 == 0){
        System.out.println("ERROR");
        System.out.close();
    }
}
```

So proud of myself :P

What he meant was:

```
if (operator.equals("/")){
    if(num2 == 0){
        System.out.println("ERROR");
        System.out.close();
    }
    else{
        result = num1/num2;
    }
}
```

Im pretty bad at java, but I think this one is better..!

eXero - January 11, 2011, 4:01 pm

Thanks Ompet! I am going to attempt C++ now :P

Royal Flush - January 12, 2011, 6:13 am

Are you good at java coding?

eXero - January 12, 2011, 4:15 pm

Motherfucker, read the damn thread post date. This was posted over a year ago, when I was new to hackforums.

I used to be good at Java, but I have moved on to other languages. This was posted when I knew Java real well.

andie12serador - May 27, 2011, 1:26 pm

Nice posted Basic Calculator

eXero - May 27, 2011, 2:40 pm

Thanks andie12serador. I am glad you like it.

hego555 - May 28, 2011, 6:49 pm

Even though its not advanced, what is a advanced calculator?

A calculator that allows you to divide by 0 is more advanced then the ones you buy at the 99 cent store!

But seriously it is a simple java program, not a scientific calculator!

iDuL - November 25, 2011, 6:17 pm

Pretty good tutorial if I do say so myself.

Snoopsy - December 29, 2011, 5:20 pm

This isn't really a tut, it's just copy paste. It's a nice source to learn from though.

Custodian of Hell - December 29, 2011, 5:54 pm

You can try-catch the divide by zero exception to make a smoother experience for the user and put it inside the do-while loop.

Mafugsa Bob - February 3, 2012, 2:54 pm

I'd do it like this:

```
Code import java.util.Scanner;

    public static void main (String args[]){

        double fn,sn,answer=0;
        int way;

        Scanner input = new Scanner(System.in);

        System.out.println("Enter fnum");
        fn = input.nextDouble();

        System.out.println("Enter 1 for +, 2 for -, 3 for *, 4 for /");
        way = input.nextDouble();

        Sytem.out.println("Enter snum");
        sn = input.nextDouble();

        }if (way == 1){
            answer = fn + sn;

        }else if (way == 2){
            answer = fn - sn;

        }else if (way == 3){
            answer = fn * sn;

        }else if (way == 4){
            answer = fn / sn;

        //Here comes the anti-bug part

        }else if (way > 4){
            System.out.println("Enter a valid way to handle fnum and snum (under 4)");
        }else if (way < 1){
            System.out.println("Enter a valid way to handle fnum and snum (above 1)");

        //And here if someone tries to devide by zero (pfft, idiots)

        }else if (fnum == 0 && way == 4){
            System.out.println("Don't try to devide by zero...");
```

```

}else if (snum == 0 && way == 4){
    System.out.println("Don't try to devide by zero...");
}

System.out.println("Your answer is: " + answer);

}

```

CBF testing it though, too lazy.

Basicly what it does is ask the user for a first number, then a way to handle the fnum and snum... and if you try to devide by zero you get an error...

eXero - February 4, 2012, 4:33 am

(Feb 3, 2012 03:54 PM)Kiipa Wrote: [\[CITE\]](#) I'd do it like this:

Code import java.util.Scanner;

```

public static void main (String args[]){

```

```

    double fn,sn,answer=0;
    int way;

```

```

    Scanner input = new Scanner(System.in);

```

```

    System.out.println("Enter fnum");
    fn = input.nextDouble();

```

```

    System.out.println("Enter 1 for +, 2 for -, 3 for *, 4 for /");
    way = input.nextDouble();

```

```

    Sytem.out.println("Enter snum");
    sn = input.nextDouble();

```

```

    }if (way == 1){
        answer = fn + sn;

```

```

    }else if (way == 2){
        answer = fn - sn;

```

```

    }else if (way == 3){
        answer = fn * sn;

```

```

    }else if (way == 4){
        answer = fn / sn;

```

```

    //Here comes the anti-bug part

```

```

    }else if (way > 4){
        System.out.println("Enter a valid way to handle fnum and snum (under 4)");
    }else if (way < 1){
        System.out.println("Enter a valid way to handle fnum and snum (above 1)");
    }
}

```

```
//And here if someone tries to devide by zero (pfft, idiots)
```

```
}else if (fnum == 0 && way == 4){  
    System.out.println("Don't try to devide by zero...");  
}else if (snum == 0 && way == 4){  
    System.out.println("Don't try to devide by zero...");  
}
```

```
System.out.println("Your answer is: " + answer);
```

```
}
```

CBF testing it though, too lazy.

Basically what it does is ask the user for a first number, then a way to handle the fnum and snum... and if you try to devide by zero you get an error...

And your point is what? This is meant for new people wanting to learn to program in Java.

Mafugsa Bob - February 4, 2012, 4:35 am

(Feb 4, 2012 05:33 AM)eXero Wrote: [\[CITE\]](#) And your point is what? This is meant for new people wanting to learn to program in Java.

Your calculator didn't give you an error when dividing by zero, and I do believe the one I posted had a while loop :) Just a example.

denn1smeister - February 4, 2012, 7:10 am

I liked it,

I have some advice

Maybe you should explain the code a bit so people can try and learn.

Thanks for upload help people like me that want to learn java.

Jhawsh

Funn1k - September 5, 2012, 6:05 pm

OMG!!Guess i learnt another way to create a calc :)

eXero - September 5, 2012, 7:27 pm

I tried my best. Give me a break. I posted this a long time ago as well.

sk0rmpa - September 6, 2012, 12:24 pm

Not really an 'advanced calculator' and also, rename this thread to. [TUT]How to skid in four easy steps[TUT]

eXero - September 8, 2012, 6:46 am

It didn't say it was an advanced calculator. I wish you could read.

Dreamcaster™ - September 8, 2012, 6:51 am

(Feb 21, 2010 05:12 PM)eXero Wrote: [\[CITE\]](#) Java Calculator

Step 1.

1.1 Open Netbeans, and create new project.

1.2 Title it whatever you want.

1.3 Click "Finish" to start the project.

Spoiler ([Click to View](#))

[img]http://i50.[censored].com/2lif0q9.png[/img]

Step 2.

Put this code in the program:Spoiler ([Click to View](#))

Code import java.util.Scanner;

```
/**
 *
 * @author eXero
 */
public class Main {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        Scanner keyboard = new Scanner(System.in);
        String operator;

        double result = 0;
        System.out.println("Please enter a number:");

        double num1 = keyboard.nextDouble();
        System.out.println("Please enter another number:");

        double num2 = keyboard.nextDouble();

        System.out.println("Enter an expression: ");
        operator = keyboard.next();
        if (operator.equals("+"))
            result = num1 + num2;
        if (operator.equals("-"))
            result = num1 - num2;
        if (operator.equals("/"))
            result = num1 / num2;
        if (operator.equals("*"))
            result = num1 * num2;
        System.out.println(num1 + operator + num2 + "=" + result);
    }
}
```

PIC:

Spoiler ([Click to View](#))

[img]http://i47.[censored].com/1zldix0.png[/img]

You should now have the coding done.

Step 4.

Click "Run" and you should now have a working calculator.

Spoiler ([Click to View](#))

[img]http://i45.[censored].com/ixyqes.png[/img]

I hope you liked my tutorial. Please give me credits for this code, and thread. Please post a reply. Its an okey guide you wrote, but why not take a moment and try to explain the code? Since this is aimed to beginners at java, i think an important step is to talk about the code so they can understand.

Anyone who can understand the code on its own can also write his own without your guide, so make it more beginner friendly.

Anyone, good guide overall, Btw, your pics arent working now.

Undefined - September 8, 2012, 10:39 am

This is not very helpful... only good for skids

mr.jitterbud - March 29, 2014, 6:08 am

great tut for a noob like me. Critics want more details in explaining what the code is doing :)

Trisomy 21 - March 29, 2014, 12:37 pm

Teaching java beginners to use an IDE when first starting is your first mistake.

iDuL - March 29, 2014, 3:36 pm

Thanks for the short & sweet tutorial I'm sure a few people found this helpful.

Define© - March 30, 2014, 6:07 am

I'm a bit of a noob at Java (just started learning the language) but C# and Java have many similarities, and was able to cook this up:

Spoiler ([Click to View](#))

Code package test;

import java.util.Scanner;

public class start {

static Scanner input = new Scanner(System.in);
//static String calc = input.next();

static int equas=1;

static Boolean loop = true;
static Boolean errorLoop = true;

public static void main(String[] args){

while(loop){
//System.out.print("\n");

errorLoop = true; //reset the value

String calc = input.next();

```

if(calc.contains("*"))equas = 1;
else if(calc.contains("/")) equas = 2;
else if(calc.contains("+")) equas = 3;
else if(calc.contains("-")) equas = 4;

try{
    if(equas==1){
        String[] numbers = calc.split("\\*");

        int a = Integer.parseInt(numbers[0]);
        a *= Integer.parseInt(numbers[1]);

        System.out.print(numbers[0] + " x " + numbers[1] + " = " + a + "\n");
    }

    else if(equas==2){
        String[] numbers = calc.split("/");

        int a = Integer.parseInt(numbers[0]);
        a /= Integer.parseInt(numbers[1]);

        System.out.print(numbers[0] + " ÷ " + numbers[1] + " = " + a + "\n");
    }

    else if(equas==3){
        String[] numbers = calc.split("\\+");

        int a = Integer.parseInt(numbers[0]);
        a += Integer.parseInt(numbers[1]);

        System.out.print(numbers[0] + " + " + numbers[1] + " = " + a + "\n");
    }

    else if(equas==4){
        String[] numbers = calc.split("-");

        int a = Integer.parseInt(numbers[0]);
        a -= Integer.parseInt(numbers[1]);

        System.out.print(numbers[0] + " - " + numbers[1] + " = " + a + "\n");
    }
}
catch(Exception E){
    if(errorLoop){ //bug fix
        System.out.print("Error on syntax. You typed the equasion wrong, ex... 5+5, 5*5");
        errorLoop = false;
    }
}
}
}
}

```

Basically, just type 5*5, 5+5, 5/5 etc...

My mistake was using integer data types instead of double.

King of Hearts - *March 30, 2014, 11:18 am*

(Mar 29, 2014 12:37 PM)zer?day Wrote: [CITE](#) Teaching java beginners to use an IDE when first starting is your first mistake.

No, making them copy and paste code is.