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Thread: [Calculator || + - * / || No gui](#)

Captain Steve Rogers - March 14, 2015, 10:15 am

Made my first Calculator in Java without copying ? ? ?

Next step : With GUI

Please give me some homework(little easy please still beginner)

Source Code :

Code import java.util.Scanner;

public class Basics

```
{
    public static void main(String[] args)
    {
        Scanner obj = new Scanner(System.in);
        int a;

        System.out.println("1. Addition\n2. Subtraction \n3. Multiplication\n4. Division");
        System.out.print("Choose any one and enter the number : ");
        a=obj.nextInt();

        if(a < 1 || a > 4)
        {
            System.out.println("Invalid choice");
            System .exit( 0 );
        }
        else
            System.out.print("Enter 1st number : ");
        int b=obj.nextInt();

        System.out.print("Enter 2nd number : ");
        int c=obj.nextInt();

        switch(a)
        {
            case 1:
            {
                System.out.println("Addition is "+(b+c));
                break;
            }
            case 2:
            {
                System.out.println("Subtraction is "+(b-c));
                break;
            }
            case 3:
```

```

{
System.out.println("Multiplication is "+(b*c));
break;
}
case 4:
{
System.out.println("Division is "+(b/c));
break;
}
}
}
}
}

```

Output :

Special thanks to [Viviparous](#).

La Manifesto - March 14, 2015, 10:24 am

It looks nice so far. Have you ever done GUI before? That would be a interesting next step to try and do.

Captain Steve Rogers - March 14, 2015, 10:29 am

(Mar 14, 2015 10:24 AM)Viviparous Wrote: [\[CITE\]](#) It looks nice so far. Have you ever done GUI before? That would be a interesting next step to try and do.

Thanks, yes i have done GUI before like 5 months ago.

I have done Core & Adv Java in college and in institution but still i was not able to code anything before 1 week ago.

Started taking Java seriously.

Yup :)

La Manifesto - March 14, 2015, 10:32 am

Try and make it into a GUI and see if you can do it. Then try doing some more advance concepts in Java.

Captain Steve Rogers - March 14, 2015, 11:38 am

(Mar 14, 2015 10:32 AM)Viviparous Wrote: [\[CITE\]](#) Try and make it into a GUI and see if you can do it. Then try doing some more advance concepts in Java.

Thanks a lot mate ?

Finally code done of non gui calculator ?

csrk - March 16, 2015, 5:12 am

Nicely done for a beginner. Let me throw you some tips? :-)

Generally switch-case code is smelly, if you want to add more methods (methods like add/mul/sin/cosine etc etc etc) you have to go back and edit code you know already words. Better to create methods and just implement a new method.

Speaking of methods, in this case your calculator works perfectly fine using only a main method, but it'd be alot prettier if you created methods for each calculation, like public int add(int a, int b); and so on.

Also, it'd probably be easier if you had a classed called RatNum or something that holds a numerator and a denominator int, and you use those for the calculations.

Iponu - March 16, 2015, 7:31 am

Cool I remember that was the first program I wrote to.. People keep saying try write it in gui. Me personally I would tell you to stay away from it a bit, until you learn more about java classes, interfaces, arrays, arraylists, etc... Otherwise you will be tempted use a program that makes the gui for you rather than actually learning how to code it without a visual.

Captain Steve Rogers - March 16, 2015, 7:49 am

(Mar 16, 2015 05:12 AM)Rewbert Wrote: [\[CITE\]](#) Nicely done for a beginner. Let me throw you some tips? :-)

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Also, it'd probably be easier if you had a classed called RatNum or something that holds a numerator and a denominator int, and you use those for the calculations.

Thanks for the tip

you mean class for every method(+*/) ? why?

is it possible for you to make one calculator and post it so i can understand it better?

(Mar 16, 2015 07:31 AM)iponu Wrote: [\[CITE\]](#) Cool I remember that was the first program I wrote to.. People keep saying try write it in gui. Me personally I would tell you to stay away from it a bit, until you learn more about java classes, interfaces, arrays, arraylists, etc... Otherwise you will be tempted use a program that makes the gui for you rather than actually learning how to code it without a visual.

Thanks, i have actually done Core & Adv Java in college and in institution but still i was not able to code anything before 1 week ago.

I just need to learn once again.

Leostraza - March 17, 2015, 2:40 pm

Quote:you mean class for every method(+*/) ? why?

This is what he means:

Code public int add(int a, int b) { return a + b; }That's a good idea..

If you have a gui, there isn't a need for Switch/case just create buttonhandlers for each button, inside those handlers do the method. (add(1, 2), etc.)

```
Code public class Calculator extends JFrame {
    public Calculator() {
        setTitle("Calculator");
        //... blah blah blah
        addButton.addActionListener(new AddButtonHandler());
    }
}
```

```
public static void main(String[] args) {  
    new Calculator();  
}  
  
private class AddButtonHandler implements ActionListener {  
    public void actionPerformed(ActionEvent e) {  
        textField.setText(Integer.toString(add(number1, number2)));  
    }  
}  
}
```

Was bored, you could do something like that..

Maybe add the number to a stack (on the textField) which has a list of operations?