



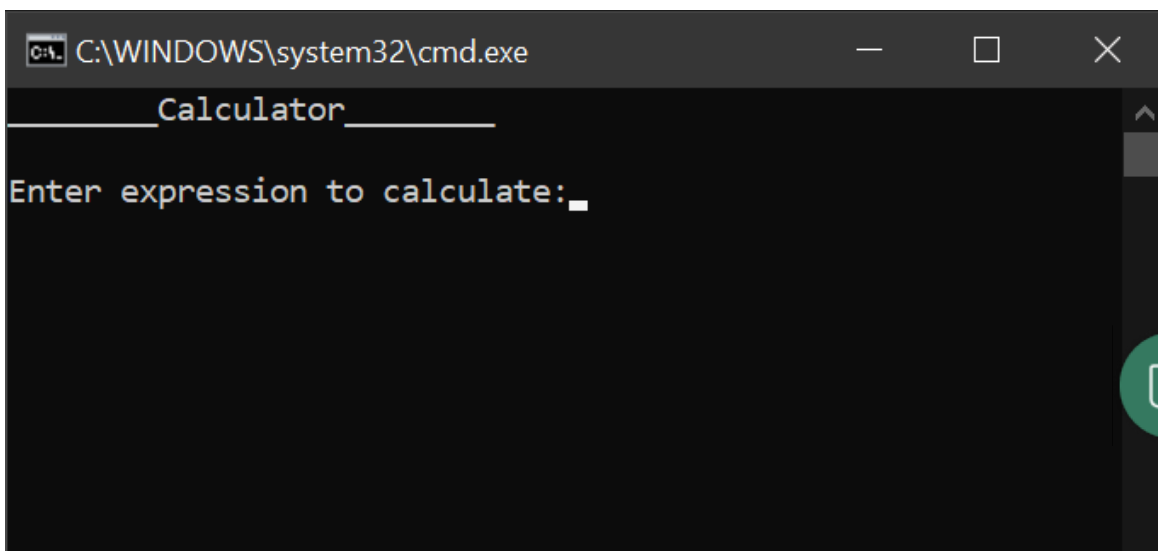
Calculator Program with Batch Scripting in Windows

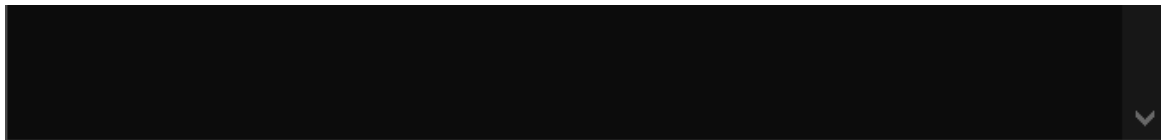
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By using the Batch Scripting of command prompt one could even design a normal basic calculator that takes expressions and returns the result. Type the following script in notepad or any other text editor software:

```
@echo off
:a
echo _____Calculator_____
echo.
set /p expression= Enter expression to calculate:
set /a ans=%expression%
echo.
echo = %ans%
echo
pause
cls
goto a
```

After writing the above text in a text editor, save the file with the extension “**.bat** “. To run the program, simply double-click on the saved file, the program will open and the code will get executed in Command Prompt. It should look something like:





Welcome screen!

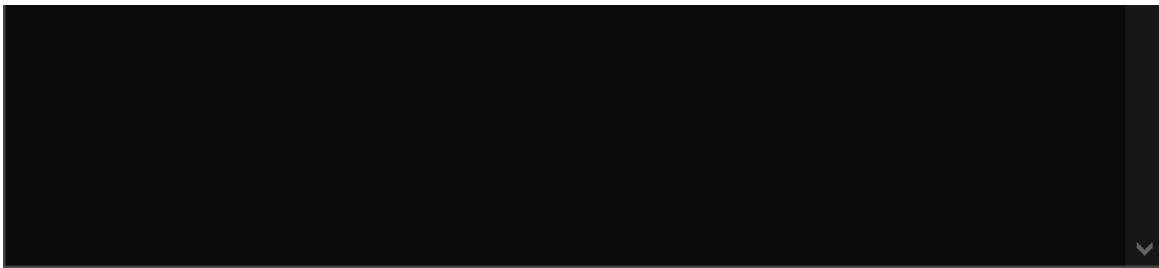
Code Explanation and Test Cases:

- @echo off — signals Command Prompt to not display the commands (code).
- : a — the signals starting point of a loop.
- echo — same as print/println/printf/etc. Displays the specified message as output to the screen.
- echo. — will output a blank line.
- set — used to set value against a variable.
- set /p expression — /p signals that this is prompt. “Expression” is just a variable name.
- set /a ans — /a signal that variable has a numerical value. “ans” is the variable name.
- %ans% — calls the variable “ans”
- pause — will pause/ stop the program flow until the user will press a key (any key) and continue the program flow only when the users press a key (any).
- cls — clears the screen
- goto a- signals to go to the start point of the loop, effectively looping our calculator program so it can take in and calculate new expression.

Program Test Cases:

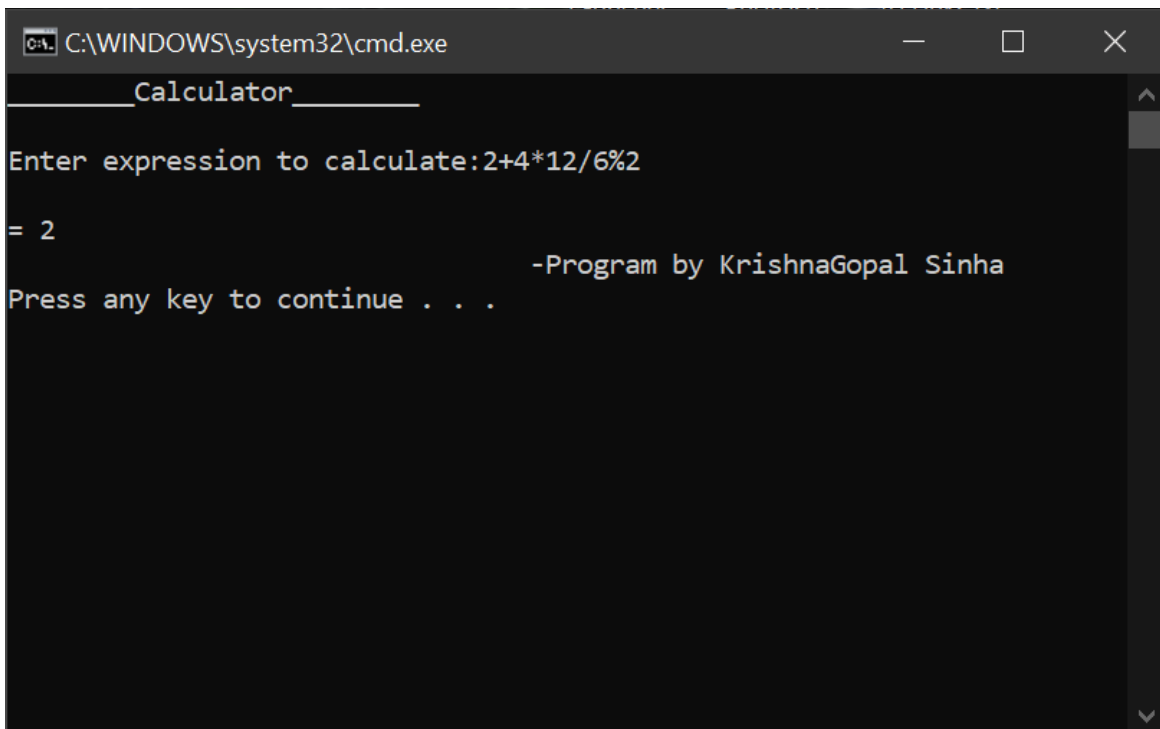
- The program can handle simple expression calculations like:

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\WINDOWS\system32\cmd.exe'. The window content shows a batch script titled 'Calculator'. The script prompts the user to 'Enter expression to calculate:2+5'. The output shows '= 7'. Below the output, it says '-Program by KrishnaGopal Sinha'. At the bottom, it says 'Press any key to continue . . .'. A green circular icon with a white document symbol is visible in the bottom right corner of the window.



Calculating Simple Expression

- And it can also handle complex expressions, such as:



Calculating Complex Expression

Note:-

- The above program is calculating expressions by utilizing the calculator (that can perform simple arithmetic on 32-bit signed integers) that comes with Command Prompt.
- Since we are utilizing built-in calculator of Command Prompt, we can only perform following expression: + (addition), - (subtraction), * (multiplication), / (divide), % (modulo).

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_Krish

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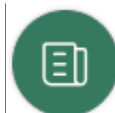
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