Instruction:

Complete all questions in 1 hr.

Let’s get started with nice and easy examples of Batch script:

1. Open your favorite text editor. Save it as filename.bat (All files) right click on the file and

edit> type >

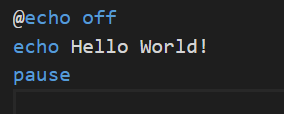
@echo off

echo Hello World!

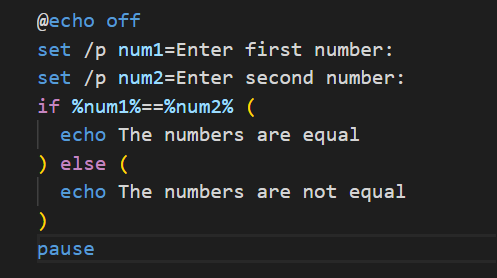
pause

Run it. You have created your first batch file.

*Write the function of set up commands @Echo off and pause.*



1. Create a batch program which takes two numeric inputs from the user and checks whether they are equal or not.



1. Create a batch program which takes a numeric input from the user and checks whether the input is odd or even.

Text

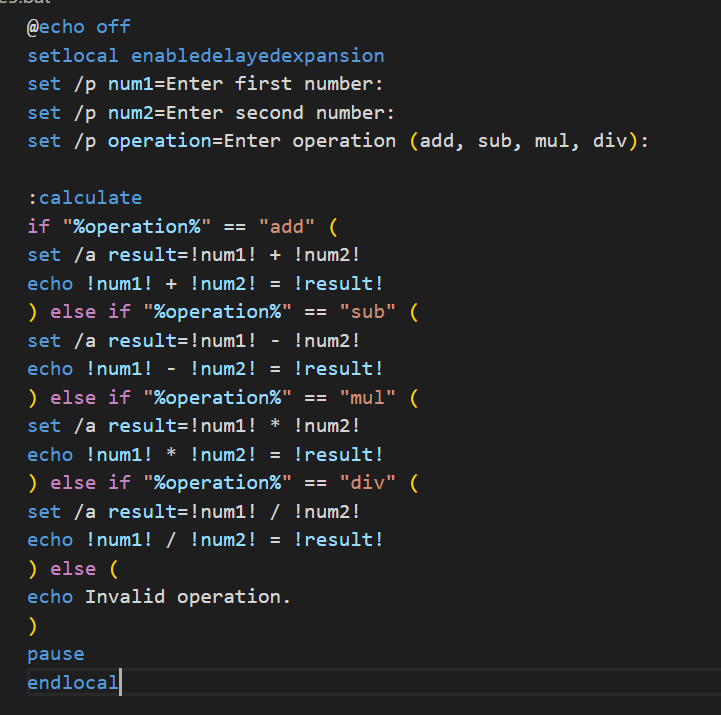
Description automatically generated

1. Create a batch program which prints natural numbers 1 to 10 using for loop.

A picture containing graphical user interface

Description automatically generated

1. Create a simple calculator using a batch script. Which takes two number and third inputs can be “add” ,“sub”, “mul”, “div” and displays the result after calculation and displays error message for any other input in the third. eg: if first input is 2 , second input is 3 and third input is add then it displays the result 5. Note: use function



1. Write a batch program to swap mouse keys.

Graphical user interface, text

Description automatically generated

1. The following script is the malicious script responsible for system crash. Explain how it works and explain how you can protect your pc from system crash in Windows OS and Linux.

It is not permanently harmful for computers but annoying.

**Warning: do not run this script.**

**:S**

**Start %0**

**Goto S**

The script is a basic infinite loop that creates a new instance of itself and redirects the flow of execution to the beginning of the script, causing the script to run indefinitely. This behavior will consume all available resources such as CPU and memory, which can cause the system to slow down and eventually crash. To protect your Windows PC from this type of script, you can use a software that detects and blocks infinite loops. Additionally, you can use the task manager or an activity monitor to close the script if it is running and consuming too many resources. To protect your Linux PC from this type of script, you can use a software that detects and blocks infinite loops or use the command-line tool 'top' to monitor the processes running on your system. If you notice a process that is consuming too many resources, you can use the command 'kill' to terminate it. Additionally, you can use the command 'ulimit' to set a limit on the amount of resources that a script can use, which can prevent a script from consuming too many resources and crashing the system. It is important to note that the script will not cause permanent harm to your computer. However, it is still a malicious script that should not be run on any computer. It is crucial to practice safe browsing habits and to be cautious when running scripts or programs from unknown sources to protect your computer from malicious software.