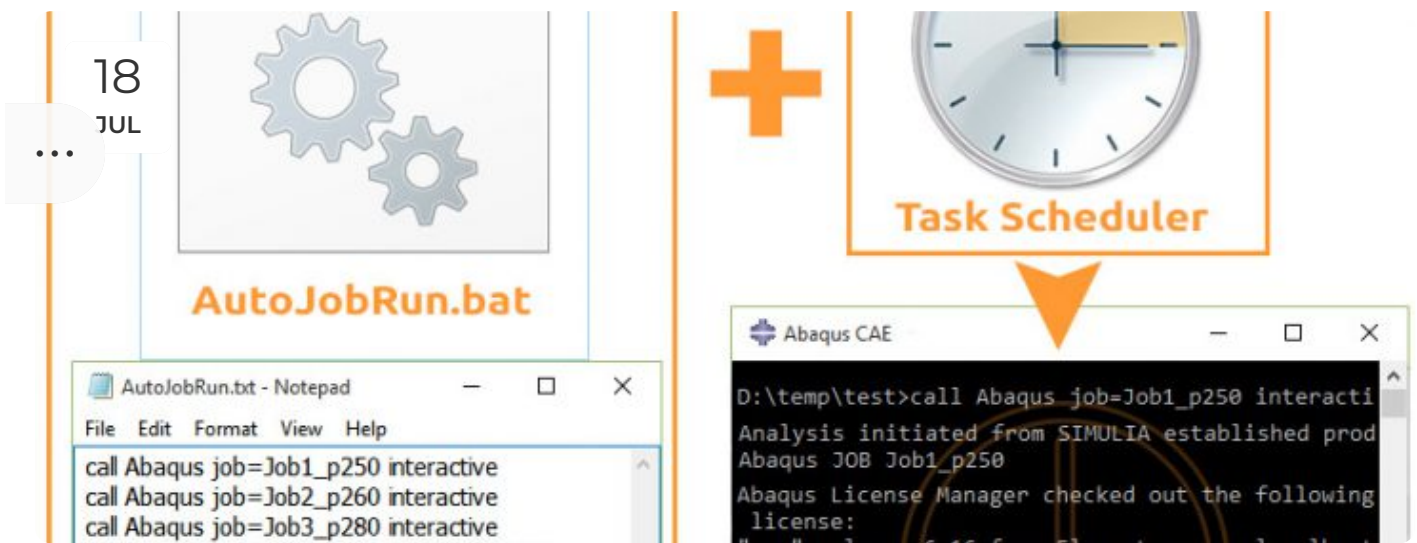


# Blog

BLOG

## 3 Steps to Run Multiple Jobs Sequentially in Abaqus | Abaqus Job Scheduler

Posted by  Writers Of CAE Assistant Group



Are you tired of spending countless hours running multiple Abaqus jobs? In this article, we'll guide you through automating your Abaqus job queue efficiently. Learn how to generate .inp files, create a customized Abaqus batch file, and utilize the Windows Task Scheduler for an automated Abaqus batch run. Say goodbye to manual job submissions and hello to a streamlined Abaqus job scheduler, Enabling you to Abaqus run multiple jobs sequentially without the hassle. Read on to simplify your job management and save valuable time. You can simulate Abaqus examples, such as writing subroutines or Python scripting, and automate the running of your jobs by joining our free ABAQUS course. We take pride in being your **CAE Assistant**.

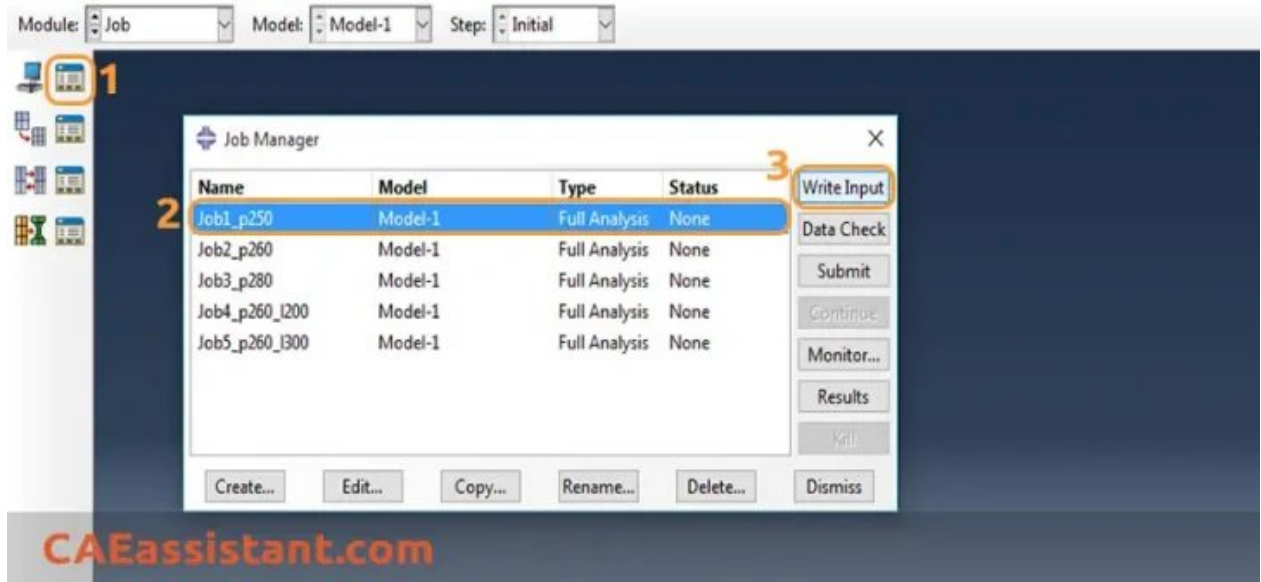
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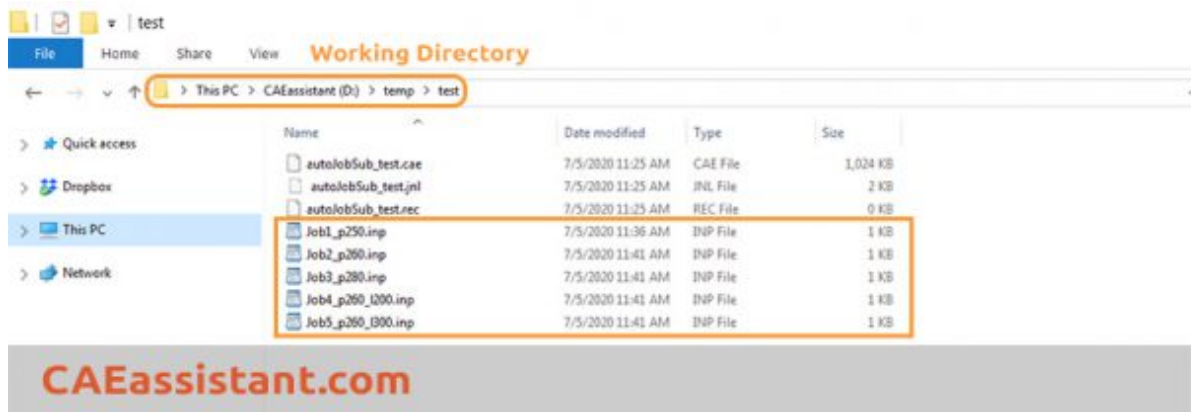
# 1. Introduction to Abaqus Job Scheduler : Generating .inp Files

After changing any parameter of your model, create a job and then in **Job Manager** window, instead of selecting **Submit**, just press **Write Input**:



Repeat that for every job you defined.

Now, you can find as many **.inp** files in the **Working Directory** as jobs you defined before, ready for the Abaqus job scheduler and managing Abaqus queue jobs.



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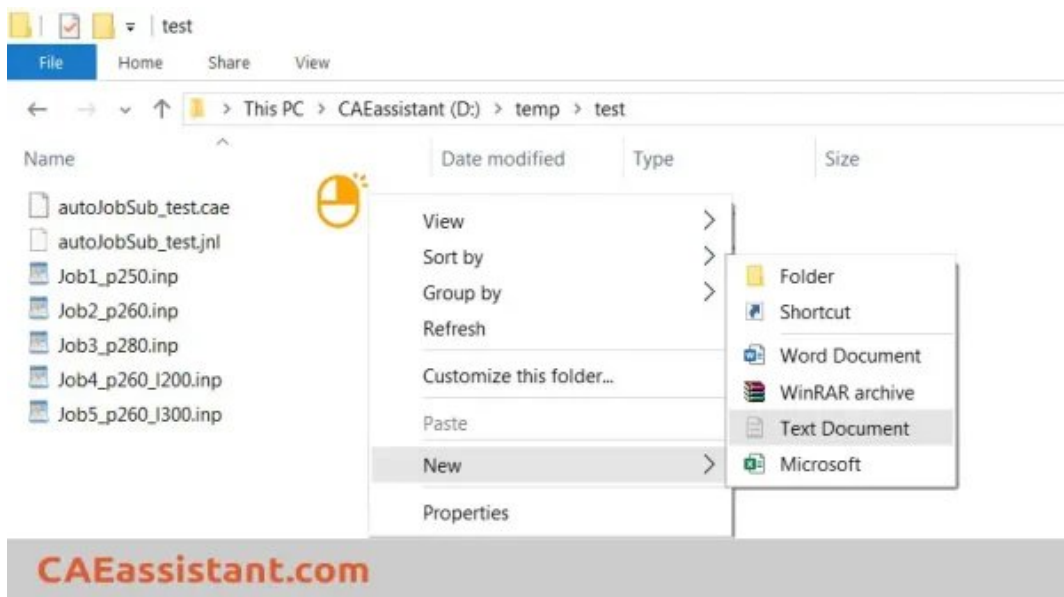


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Now, It's time to simplify your workflow and transition to Abaqus run multiple jobs sequentially for increased efficiency.

## 2. Creating a Customized Batch File | Creating Abaqus Batch Files

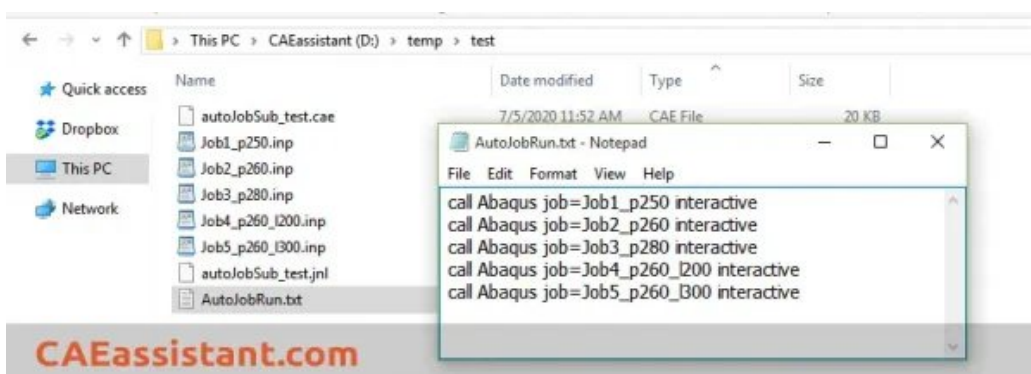
Then, we need to create a **.txt file** (for example, AutoJobRun.txt), enter some commands, and then save the file and change its ending to **.bat**. First, right click on any empty space and select New > New Text Document:



Now, Open the created file. You must enter a line like the following for each job:

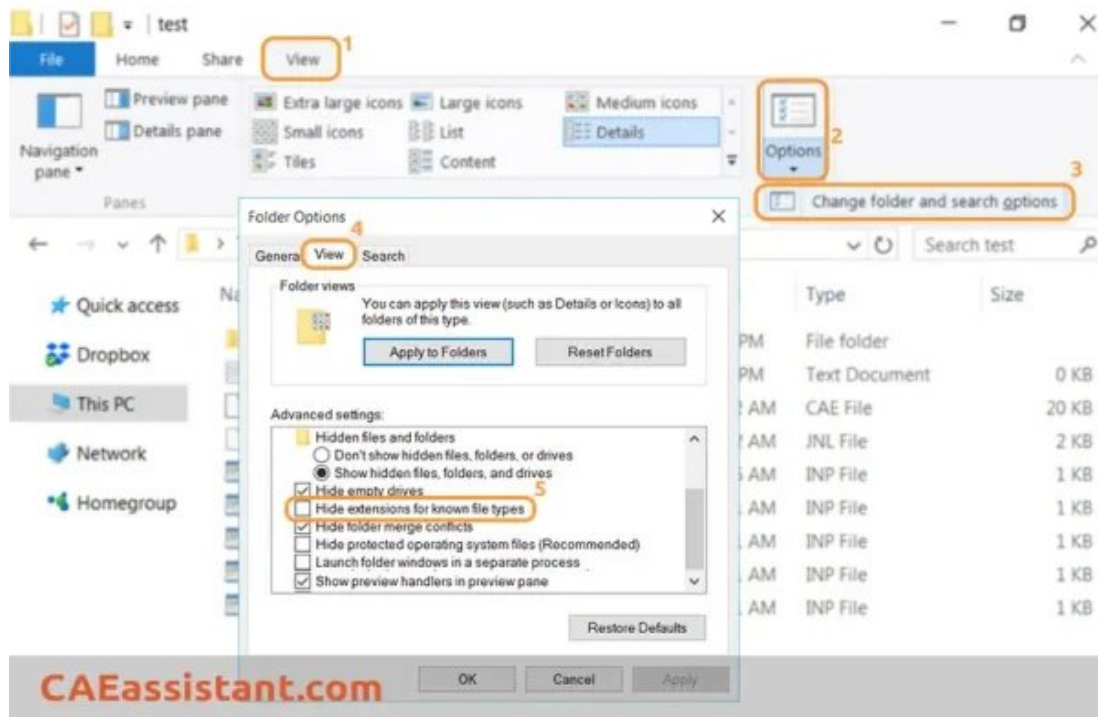
*call Abaqus job=job\_name interactive*

Where you replace job\_name with your selected name for every job:



The phrase **interactive** is really important to run jobs sequentially and after completing the former job.

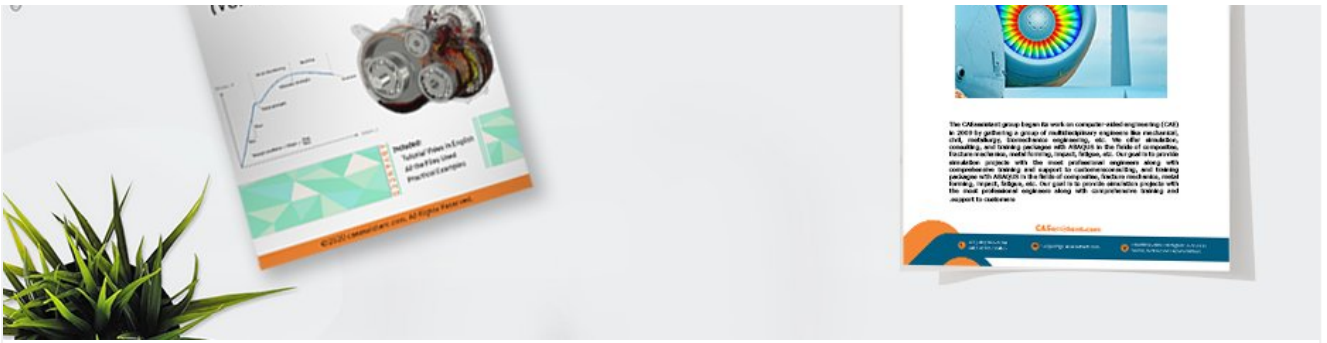
**Close** the file and **Save** it. Now, we should change its extension to **.bat**. If you can not see the extension of the files (in Windows 8 and upper), just go to **View** tab > **Options** > **Change folder and search options**. Then, in the opened window, go to the **View** tab and uncheck the **Hide extensions for known file types**



Now we have a file named **AutoJobRun.bat**, which is an Abaqus batch file.

This **.bat** ending file is called a **batch file**. A **batch file** is a script file in Microsoft Windows. It consists of a series of commands to be executed by Windows, stored in a plain text file. Here, you have created an Abaqus batch file scheduling jobs in Abaqus.





Abaqus Fundamentals

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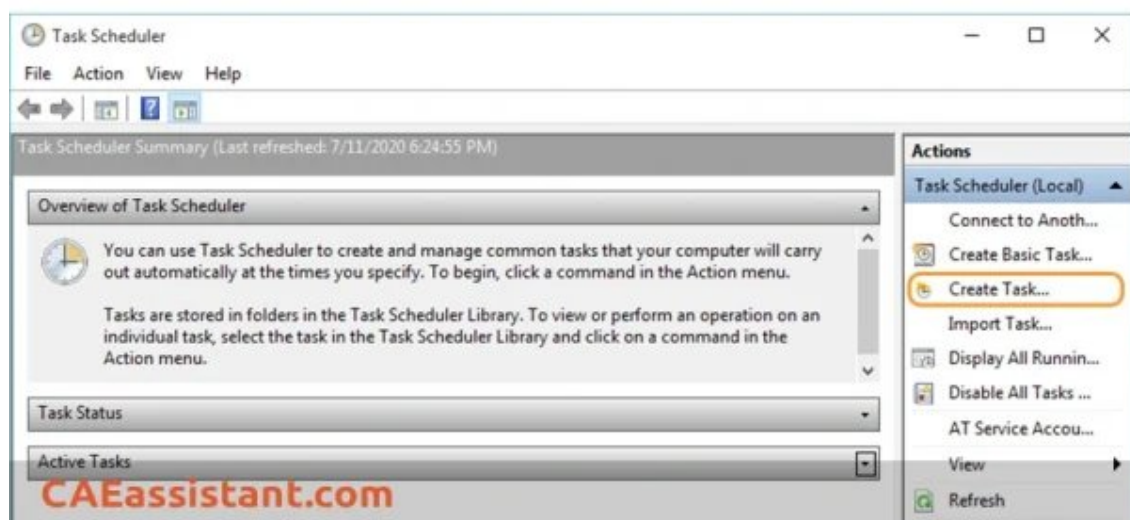
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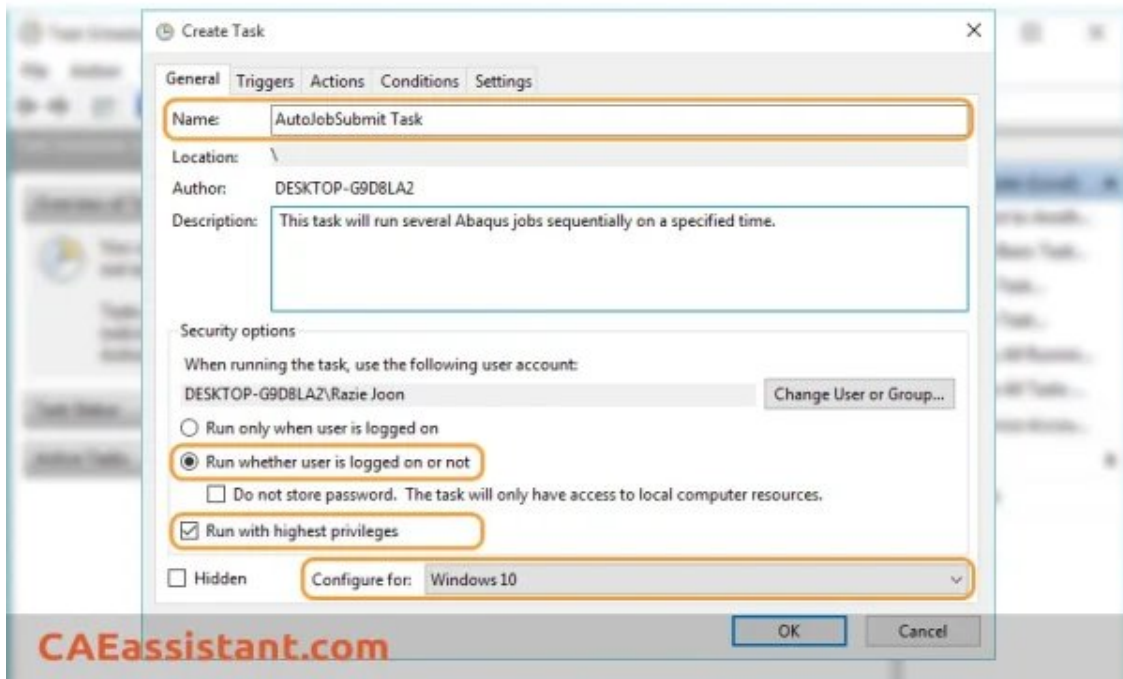
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### 3. Automate Running Abaqus Queue Jobs | Abaqus Batch Run

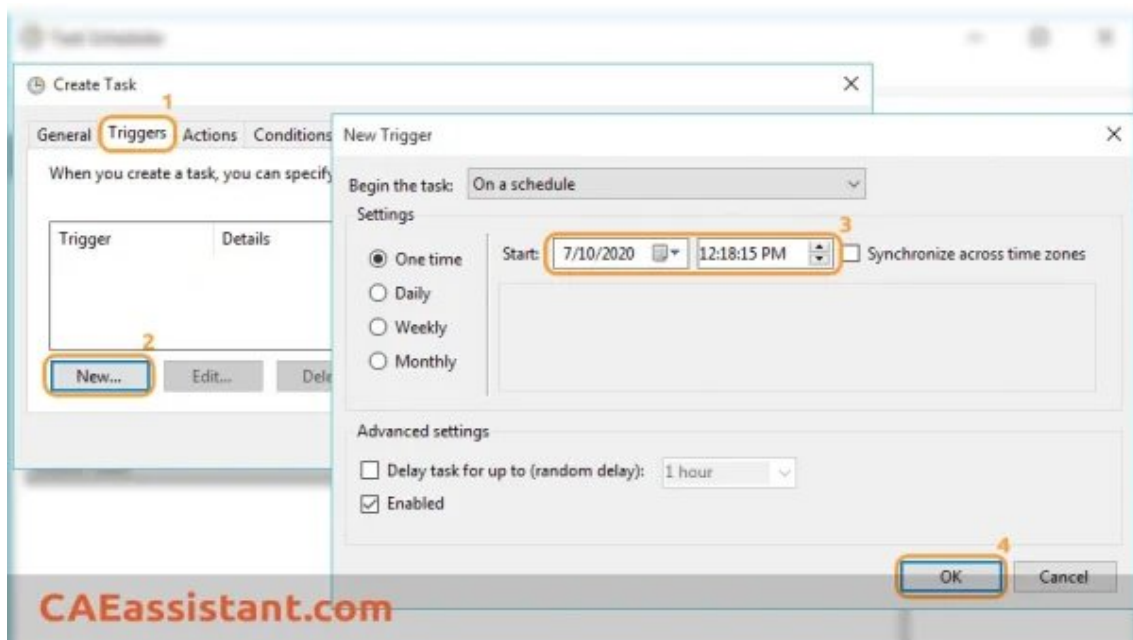
For this purpose we have to use Windows Task Scheduler. Find the **Task Scheduler** app in Windows and run it. On the left panel, choose **Create Task...**



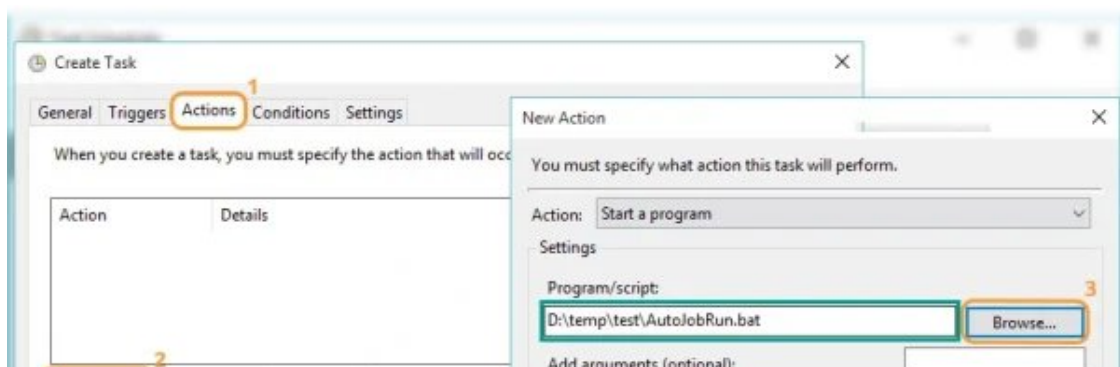
Then, in the appeared window, type a name for your task and a description if you wish. Also, select **Run whether the user is logged in or not** and tick **Run with the highest privileges**. You should select **Windows 10** in **Configure for:** menu.

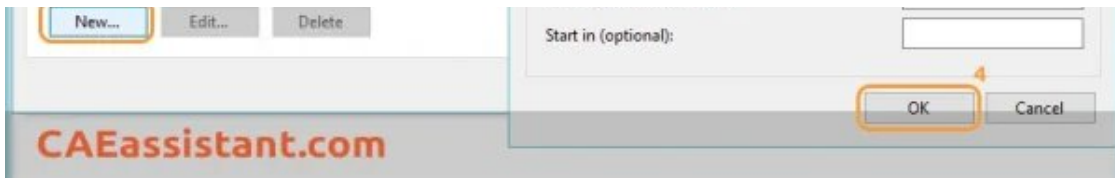


Then, switch to the **Triggers** tab, select **New**, and choose the desired day and time to **Start** running jobs automatically:

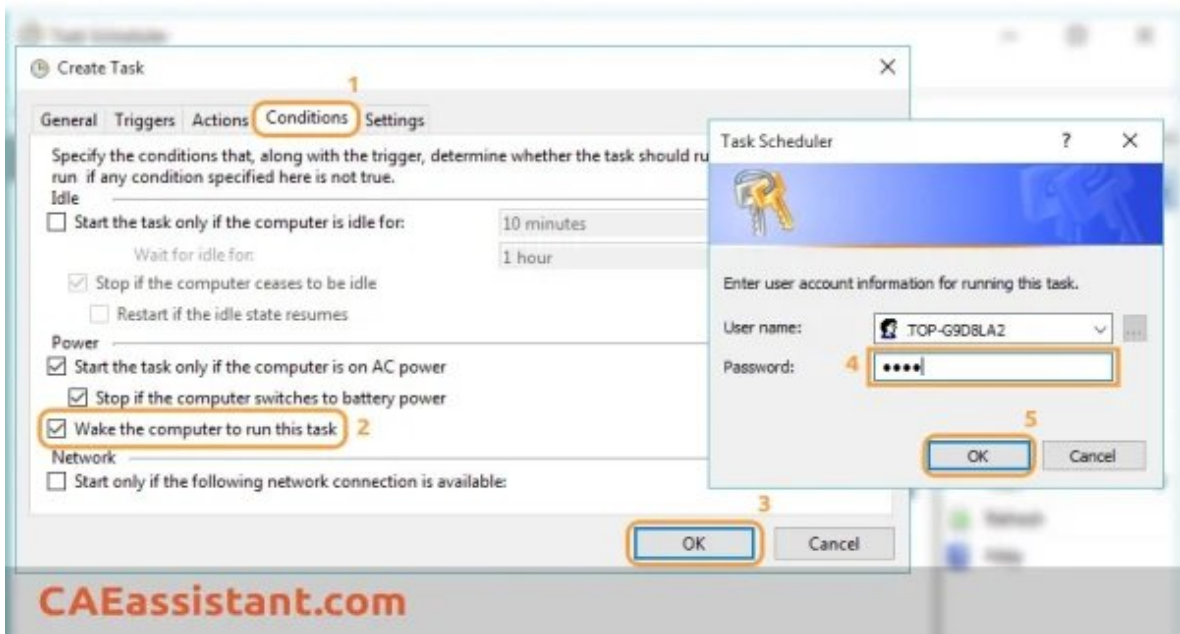


Switch to the **Actions** tab, select **New**, and **Browse** for Abaqus batch file we created before:





And finally, switch to the **Conditions** tab and tick the **Wake the computer to run this task** option:



With this selection, even if the computer is shut down, it will wake at the selected time. However, I suggest to **Hibernate** your computer and plugging it in.

Press **OK**. If the program asks for your account **Password**, type it.

This was all about scheduling jobs in Abaqus, including managing Abaqus queue jobs and automating Abaqus batch run(Abaqus run multiple jobs sequentially). Implement this method in Abaqus projects. Enroll in our free [Abaqus course](#) to explore practical projects.

This is a summary of this passage, We have placed it in the Q&A section of our website for your quick reference:

[Q&A: How can I run an \(or several\) Abaqus job automatically?](#)

I hope you have got enough information about Abaqus jobs and running Abaqus multiple jobs; if you need some more **CAE Assistant**, please visit our [Abaqus tutorial](#) page.

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