

CS609 IDEA SOLUTION ASSIGNMENT NO 2 SPRING 2023

```
#include <Windows.h>
#include <stdio.h>
```

How to make this assignment:

<https://youtu.be/1AEF-PgC6M0>

```
int main()
{
    // Task 1: Create a named job object with default security descriptor
    HANDLE hJob = CreateJobObject(NULL, "MyJobObject");

    if (hJob == NULL)
    {
        // Handle error if job object creation fails
        printf("Failed to create job object. Error code: %d\n", GetLastError());
        return 1;
    }

    // Task 2: Set limits for the job object
    JOBOBJECT_BASIC_UI_RESTRICTIONS uiRestrictions;
    uiRestrictions.UIRestrictionsClass = JOB_OBJECT_UILIMIT_READCLIPBOARD;

    if (!SetInformationJobObject(hJob, JobObjectBasicUIRestrictions, &uiRestrictions,
    sizeof(uiRestrictions)))
    {
        // Handle error if setting job object limits fails
        printf("Failed to set job object limits. Error code: %d\n", GetLastError());
        CloseHandle(hJob);
        return 1;
    }

    // Task 3: Assign the process to the job object
    HANDLE hProcess = OpenProcess(PROCESS_ALL_ACCESS, FALSE, GetCurrentProcessId());

    if (hProcess == NULL)
    {
```



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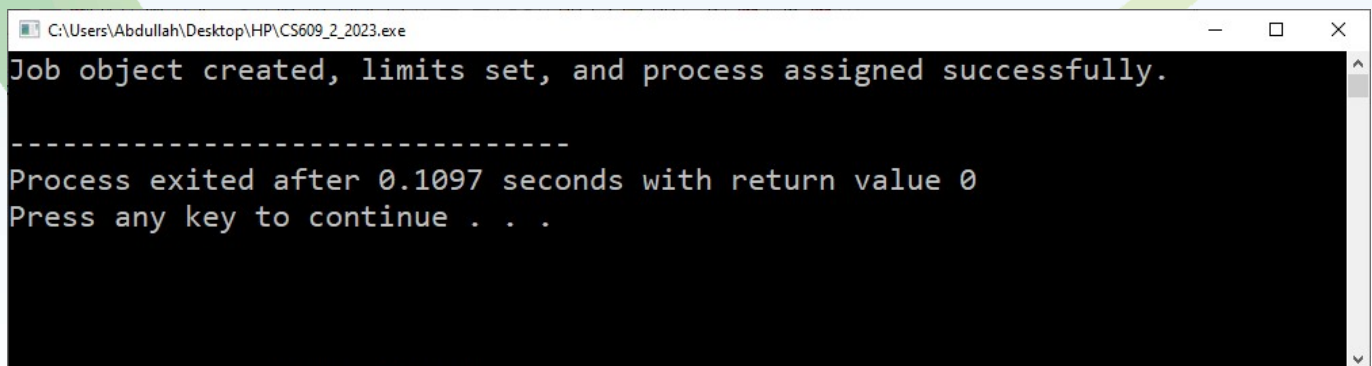
```
// Handle error if opening the current process fails
printf("Failed to open current process. Error code: %d\n", GetLastError());
CloseHandle(hJob);
return 1;
}

if (!AssignProcessToJobObject(hJob, hProcess))
{
    // Handle error if assigning process to the job object fails
    printf("Failed to assign process to job object. Error code: %d\n", GetLastError());
    CloseHandle(hProcess);
    CloseHandle(hJob);
    return 1;
}

// Success
printf("Job object created, limits set, and process assigned successfully.\n");

// Cleanup
CloseHandle(hProcess);
CloseHandle(hJob);

return 0;
}
```



C:\Users\Abdullah\Desktop\HP\CS609_2_2023.exe

```
Job object created, limits set, and process assigned successfully.

-----
Process exited after 0.1097 seconds with return value 0
Press any key to continue . . .
```



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