### **Week 3 Laboratory: User Management and Permissions in Windows**

#### **Objective:**

Students will learn how to manage user accounts and groups, and assign permissions to files and folders in Windows using both graphical and command-line interfaces. By the end of this activity, students will be able to create, modify, and delete users and groups, as well as assign permissions to different user groups.

### **Lab Setup:**

1. **Operating System:** Windows 10 or later.
2. **Required Tools:**
   * Command Prompt with Administrator privileges.
   * Access to the Local Users and Groups tool (lusrmgr.msc).
   * A folder created on the system for testing permissions (e.g., C:\LabFiles).

### **Task 1: Creating Users via Command Prompt**

**Step 1:** Open Command Prompt as Administrator.

* + Search for **cmd** in the Start menu, right-click, and select **Run as administrator**.

**Step 2:** Create two users (student1 and student2):  
bash  
Copy code  
net user student1 password123 /add

net user student2 password456 /add

**Step 3:** Verify the users were created:  
bash  
Copy code  
net user student1

net user student2

### 

### 

### **Task 2: Creating User Groups and Adding Users to Groups**

**Step 1:** Create a group called "LabGroup":  
bash  
Copy code  
net localgroup LabGroup /add

**Step 2:** Add both users (student1 and student2) to "LabGroup":  
bash  
Copy code  
net localgroup LabGroup student1 /add

net localgroup LabGroup student2 /add

**Step 3:** Verify that the users were added to the group:  
bash  
Copy code  
net localgroup LabGroup

### **Task 3: Setting Folder Permissions for the Group**

**Step 1:** Create a folder called "C:\LabFiles":

* + Use File Explorer or:

bash  
Copy code  
mkdir C:\LabFiles

**Step 2:** Assign full control of the "C:\LabFiles" folder to the group "LabGroup":  
bash  
Copy code  
icacls "C:\LabFiles" /grant LabGroup:F

**Step 3:** Verify that the group has the correct permissions on the folder:  
bash  
Copy code  
icacls "C:\LabFiles"

### 

### 

### 

### 

### **Task 4: Modifying and Testing User Permissions**

**Step 1:** Remove write permissions for student2 on the "C:\LabFiles" folder:  
bash  
Copy code  
icacls "C:\LabFiles" /deny student2:W

**Step 2:** Test the permissions:

* + **Log in as student2** and try to create a file in the "C:\LabFiles" folder. They should be denied access.
  + **Log in as student1** and create a file in the "C:\LabFiles" folder, which should succeed.

### **Task 5: Deleting Users and Groups**

**Step 1:** Remove the users from the group:  
bash  
Copy code  
net localgroup LabGroup student1 /delete

net localgroup LabGroup student2 /delete

**Step 2:** Delete the users:  
bash  
Copy code  
net user student1 /delete

net user student2 /delete

**Step 3:** Delete the group:  
bash  
Copy code  
net localgroup LabGroup /delete