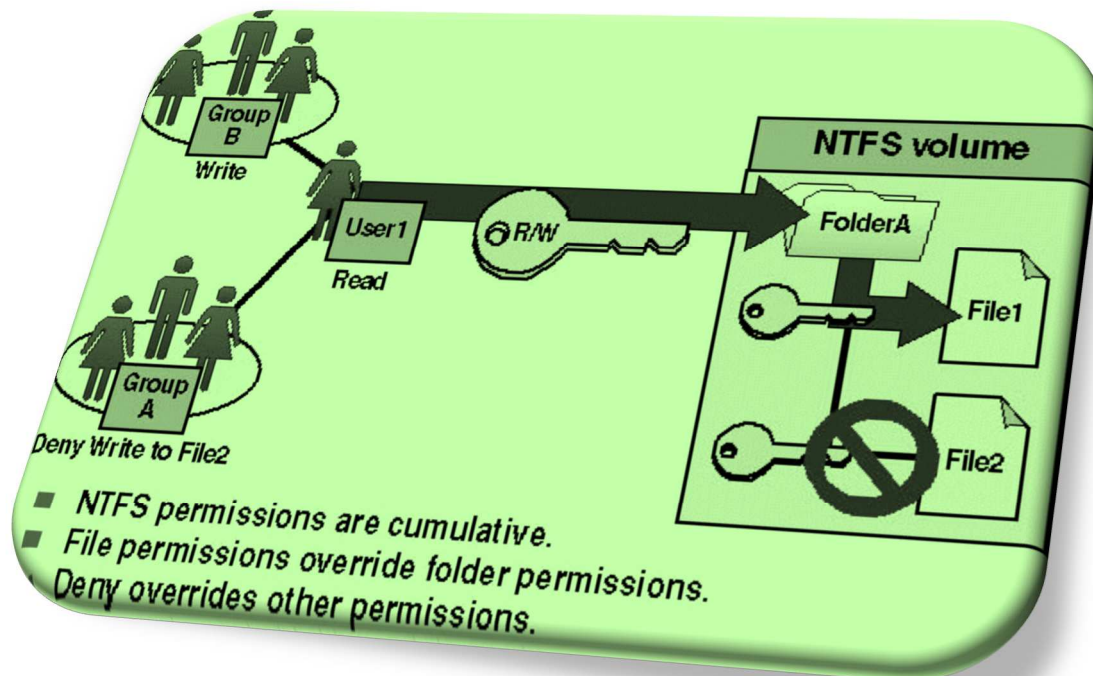


NTFS PERMISSIONS



Fill in the following folder and file permissions tables based on the following criteria:

- We have two groups: **painters** and **musicians**
- The users named **goya, velazquez and leonardo** belong to the group **painters**, among others.
- The users named **verdi, mozart and albeniz** belong to the group **musicians**, among others.
- Only the painters can access the folder **canvas** to create and delete files. The remaining users cannot enter into it.
- Only the musicians can access the folder **hall** to create and delete files. The remaining users cannot enter into it.
- The user **leonardo** cannot access the folder **prado**
- The folder **louvre** can be accessed exclusively by **goya** and **velazquez**, but only with the read permission
- The user **albeniz** cannot access the folder **opera**
- The file **donjuan.wav** can be accessed exclusively by **mozart**.
- The file **lasmeninas.jpg** into **prado** can be opened by all the **painters** except **goya**

Directory tree

```

canvas ____prado:    lasmeninas.jpg
  | ____louvre

```

```

hall ____opera: donjuan.wav

```

For each folder, create a table similar to the one below in which you will include all the necessary user and groups. Consider two scenarios: inheritance and non-inheritance.

Administrators are irrelevant. Suppose they have Full Control over all the files and folders.

File and directories permission table

Canvas

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
painters (explicit)		X	X	X	X					

Hall

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
Musicians (explicit)		X	X	X	X					

prado (the same without inheritance, although painters with explicit permissions)

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
painters (inherited)		X	X	X	X					
leonardo (explicit)									X	

louvre (Disable inheritance to delete the inherited group “painters”)

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
goya (explicit)			X	X						
velazquez (explicit)			X	X						

louvre: Without disabling inheritance it not possible. We have the possibilities below:

- 1. Denying permission from painters. As a result, goya and velazquez would not be able to access the folder.**

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
painters (inherited)		X	X	X	X					
Leonardo (inherited)									X	
painters (explicit)							X	X	X	X
goya (explicit)			X	X						
velazquez (explicit)			X	X						

- 2. Not denying permission from painters. As a result, all the users belonging to painters (except for leonardo) could access the folder.**

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
painters (inherited)		X	X	X	X					
leonardo (inherited)									X	
goya			X	X						

(explicit)										
velazquez (explicit)			X	X						

3. Only denying write and modify permissions from painters. As a result, all the painters at least have read permissions.

	Allow					Deny				
User/Group	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
painters (inherited)		X	X	X	X					
leonardo (inherited)									X	
painters (explicit)							X			X
goya (explicit)			X	X						
velazquez (explicit)			X	X						

lasmeninas.jpg (the same without inheritance, but the inherited permissions would be explicit ones)

	Allow					Deny				
User/Group	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
painters (inherited)		X	X	X	X					
Leonardo (inherited)									X	
goya (explicit)									X	

hall

	Allow					Deny				
User/Group	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
musicians (explicit)		X	X	X	X					

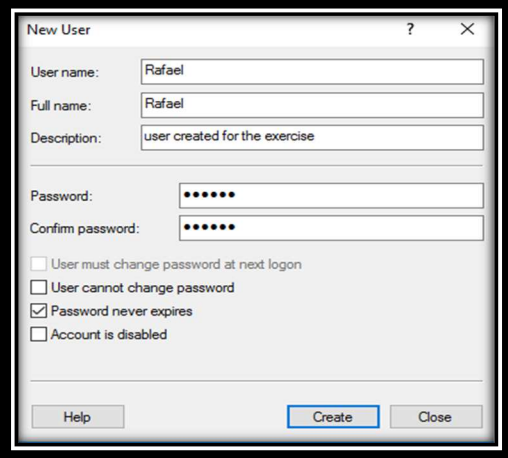
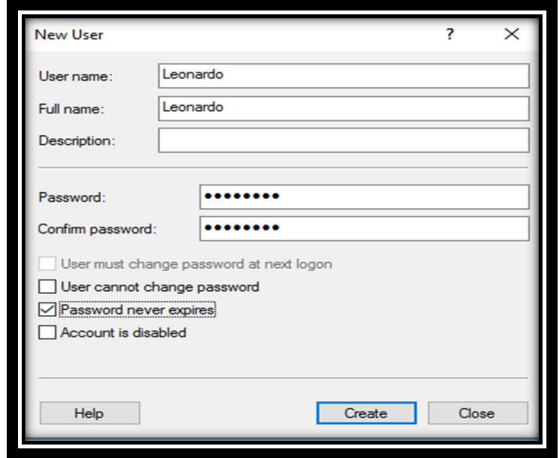
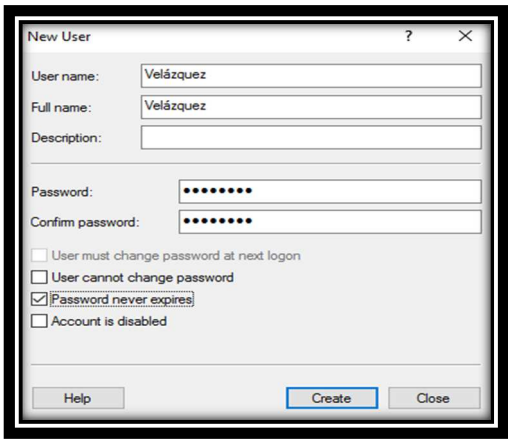
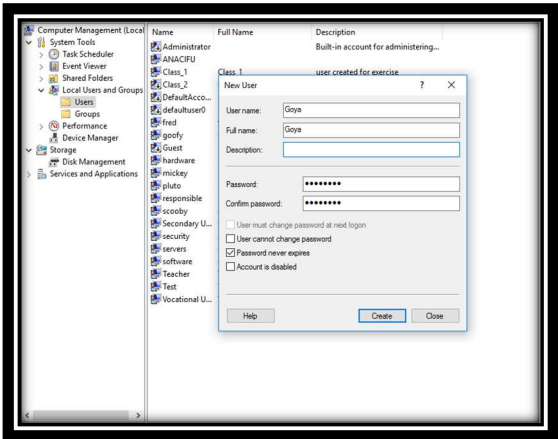
Opera (the same without inheritance, but the inherited permissions would be explicit ones)

	Allow					Deny				
User/Group	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
musicians (inherited)		X	X	X	X					
albeniz (explicit)									X	

donjuan.wav (we “Disable inheritance” so that only mozart accesses the file. Nobody will be able to delete the file except the administrator, who has Full Control over the parent folder. It is not possible again to complete this part with inheritance. We are required to deny the permission from musicians, which takes precedence over the inherited “allow” permissions)

	Allow					Deny				
User/Group	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
mozart (explicit)			X	X						

First, we have to create all users and groups we need to do this exercise from “Computer Management”.



The image displays four sequential screenshots of the 'New User' dialog box, illustrating the process of creating different users. Each dialog box contains the following fields and options:

- User name:** Text input field.
- Full name:** Text input field.
- Description:** Text input field.
- Password:** Password input field (masked with dots).
- Confirm password:** Password input field (masked with dots).
- Options:**
 - ☐ User must change password at next logon
 - ☐ User cannot change password
 - ☒ Password never expires
 - ☐ Account is disabled
- Buttons:** Help, Create, Close.

The specific data entered in each dialog box is as follows:

- Mozart:** User name: Mozart, Full name: Mozart, Password: [masked], Confirm password: [masked].
- Verdi:** User name: Verdi, Full name: Verdi, Password: [masked], Confirm password: [masked].
- Albeniz:** User name: Albeniz, Full name: Albeniz, Password: [masked], Confirm password: [masked].
- Chopin:** User name: Chopin, Full name: Chopin, Description: user created for the exercise, Password: [masked], Confirm password: [masked].

The users named **verdi**, **mozart** and **albeniz** belong to the group **musicians**, among others and the users named **goya**, **velazquez** and **leonardo** belong to the group **painters**, among others.

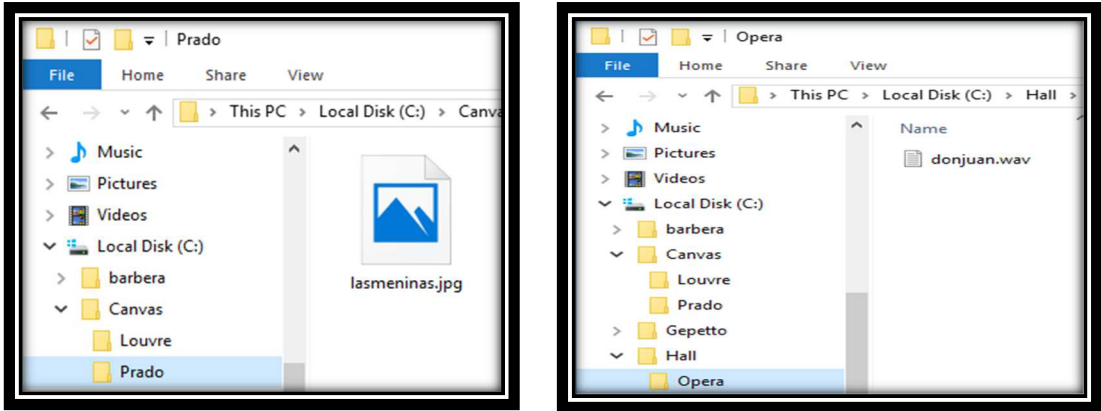
The image displays two screenshots of the 'Painters Properties' and 'Musicians Properties' dialog boxes, showing the group membership for the 'Painters' and 'Musicians' groups. Each dialog box contains the following fields and options:

- General tab:**
 - Description:** Text input field.
 - Members:** List of users belonging to the group.
- Buttons:** Add..., Remove, OK, Cancel, Apply, Help.

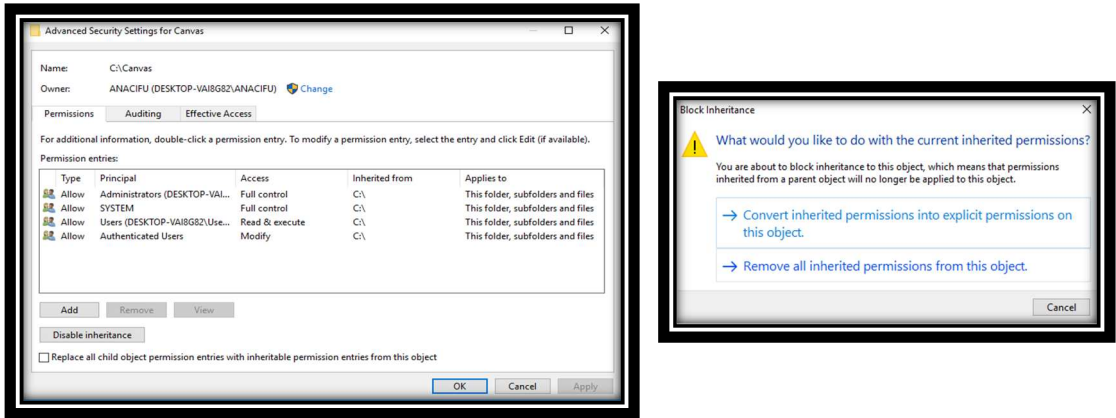
The specific data shown in each dialog box is as follows:

- Painters Properties:**
 - Description: group created for the exercise
 - Members: Goya, Leonardo, Rafael, Velázquez
- Musicians Properties:**
 - Description: group created for the exercise
 - Members: Albeniz, Chopin, Mozart, Verdi

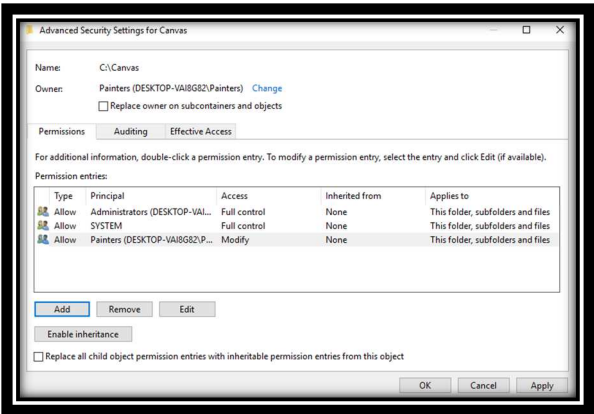
Now, we create the necessary folders and files for this exercise.



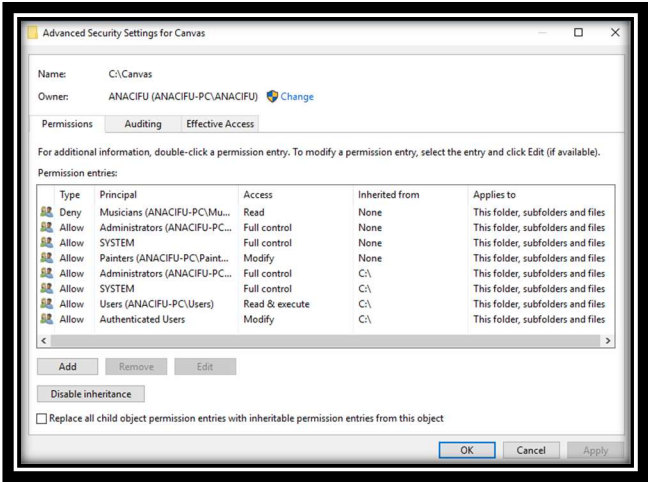
Only the painters can access the folder **canvas** to create and delete files. The remaining users cannot enter into it.



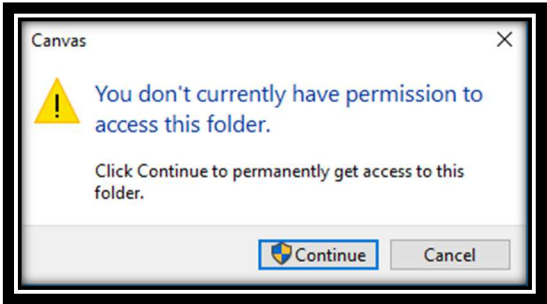
Disable inheritance



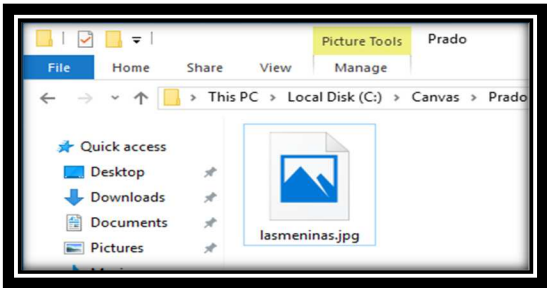
With inheritance



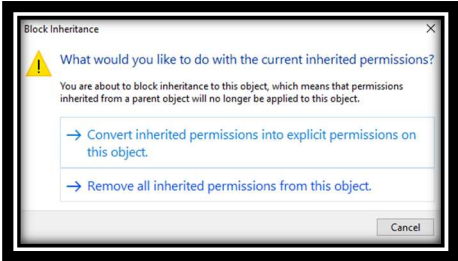
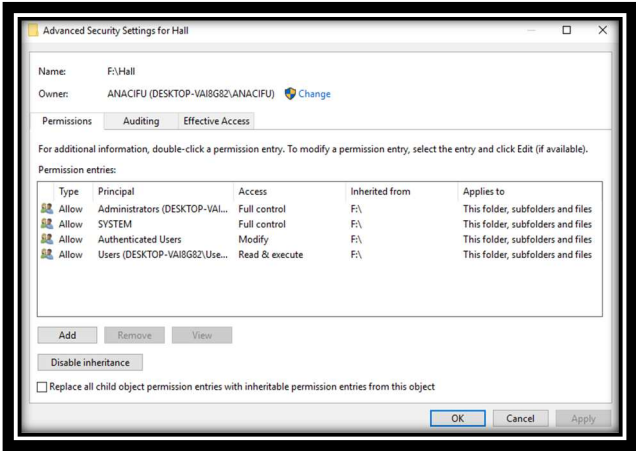
Now, check the permissions with a musician.



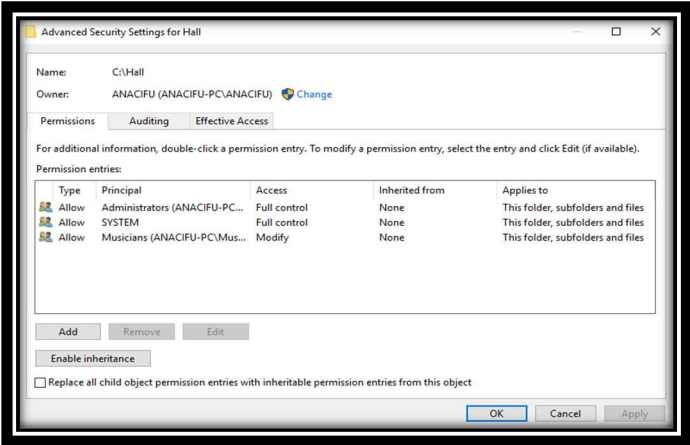
Now, check the permissions with a painter you can delete, rename, create and write.



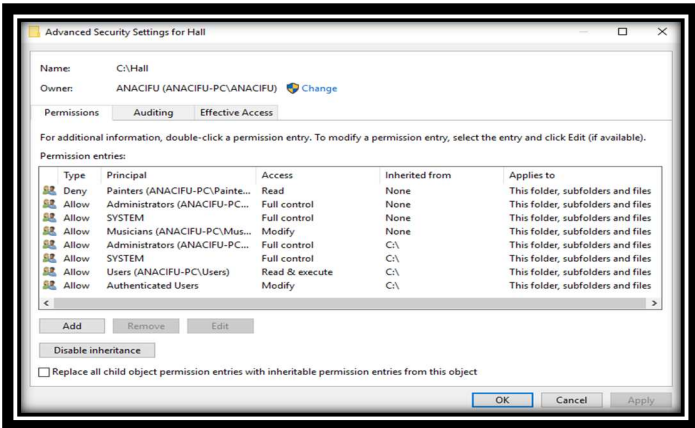
Only the musicians can access the folder **hall** to create and delete files. The remaining users cannot enter into it.



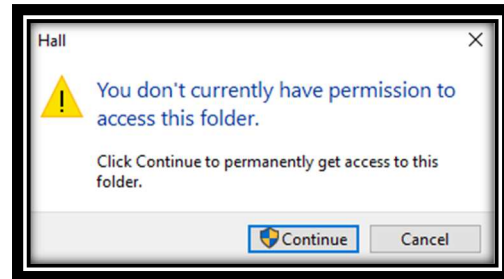
Disable inheritance



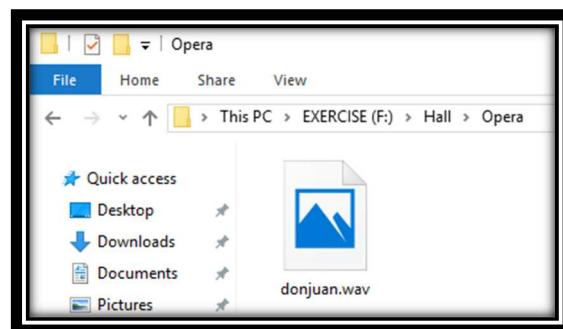
With inheritance



Now, check the permissions with a painter.

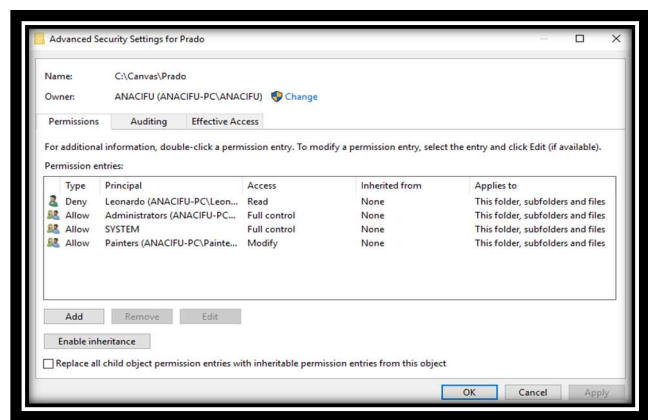


Now, check the permissions with a musician, you can delete, rename, create and write.

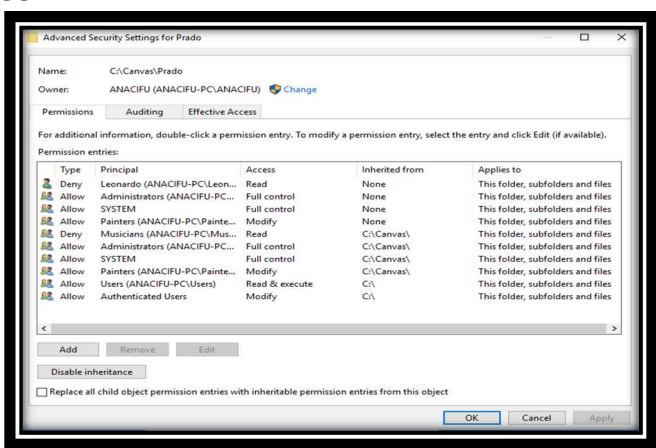


The user **leonardo** cannot access the folder **prado**.

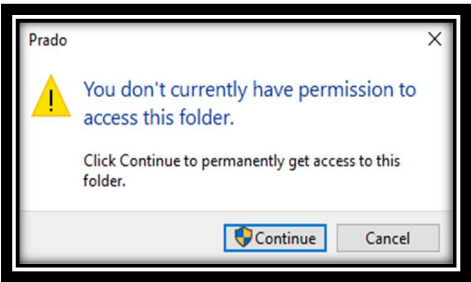
Disable inheritance



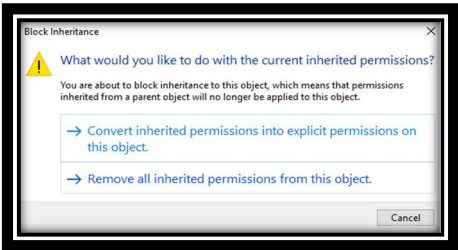
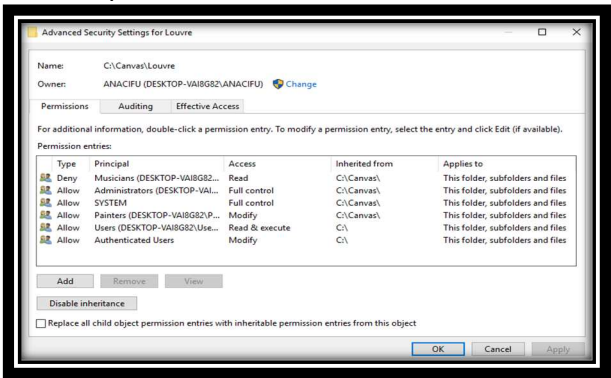
With inheritance



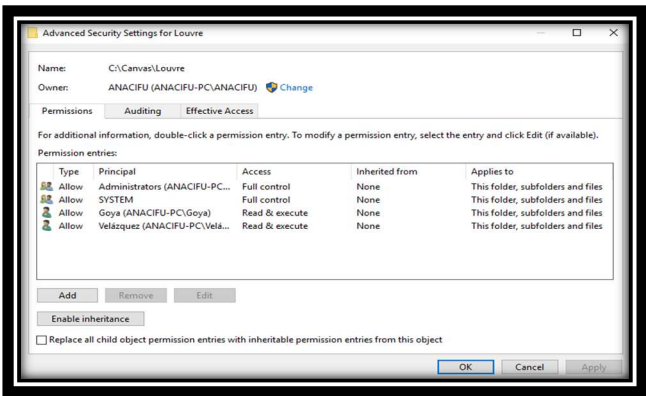
Now, check the permissions with the painter Leonardo.



The folder **louvre** can be accessed exclusively by **goya** and **velazquez**, but only with the read permission.

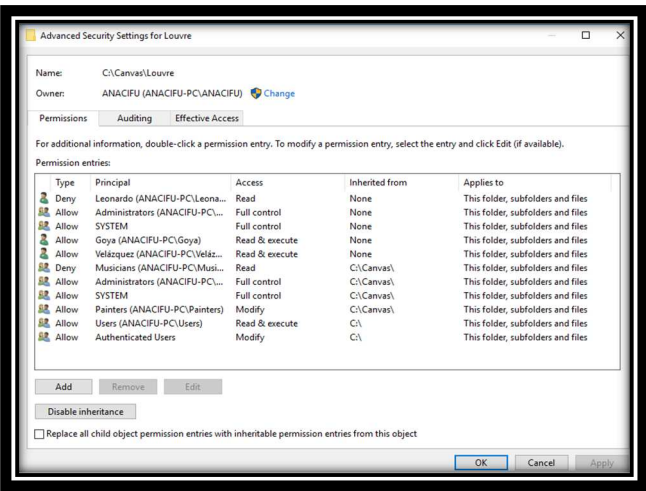


Disable inheritance

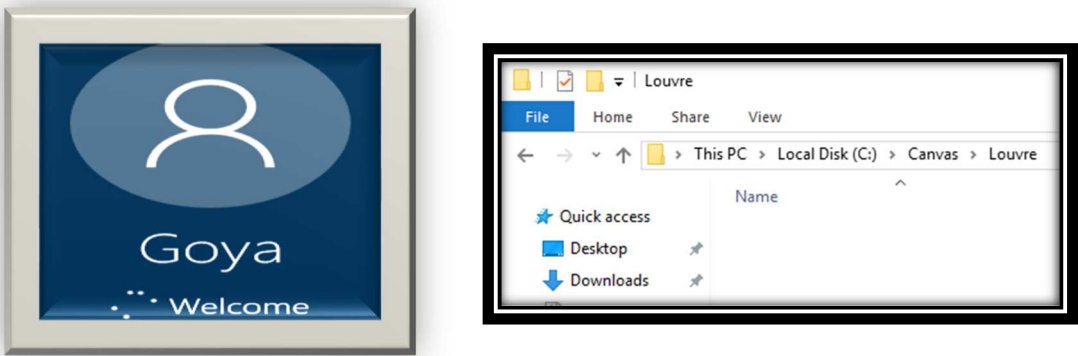


With inheritance

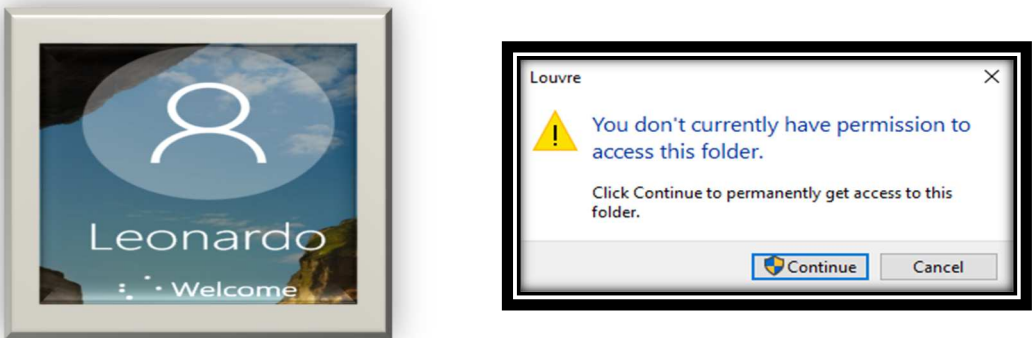
Without disabling inheritance, it not possible. In this case, all the painters except Leonardo can access the folder.



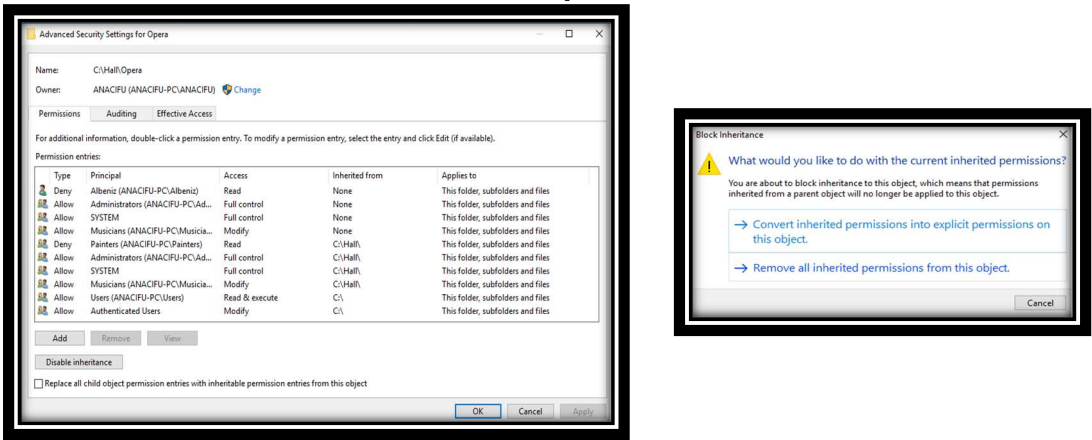
Now, check the permissions with a painter.



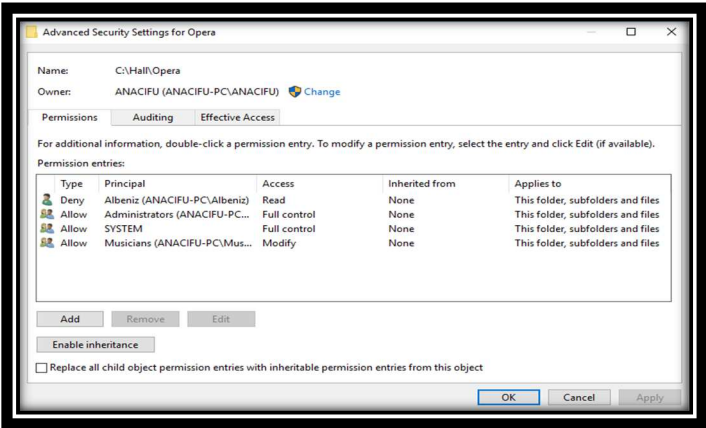
Now, check the permissions with the painter Leonardo.



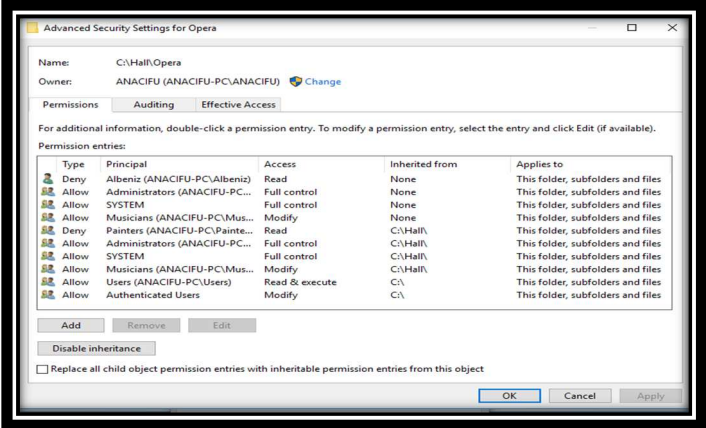
The user albeniz cannot access the folder **opera**.



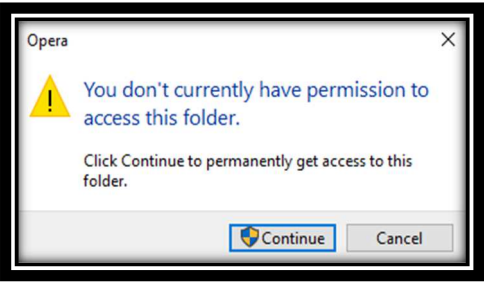
Disable inheritance



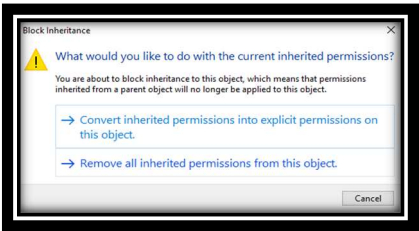
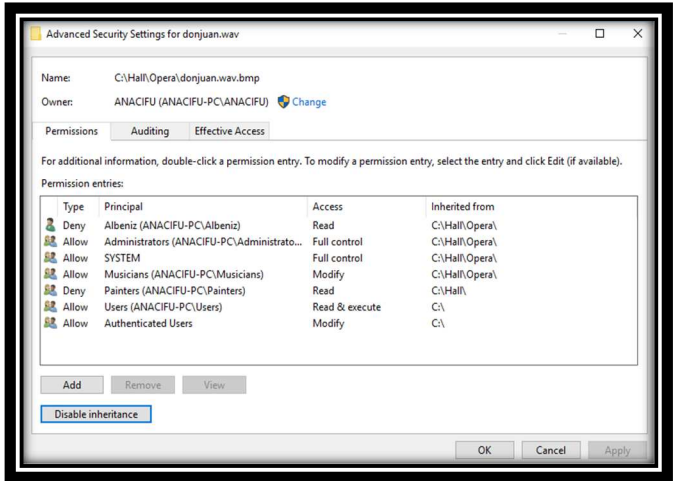
With inheritance



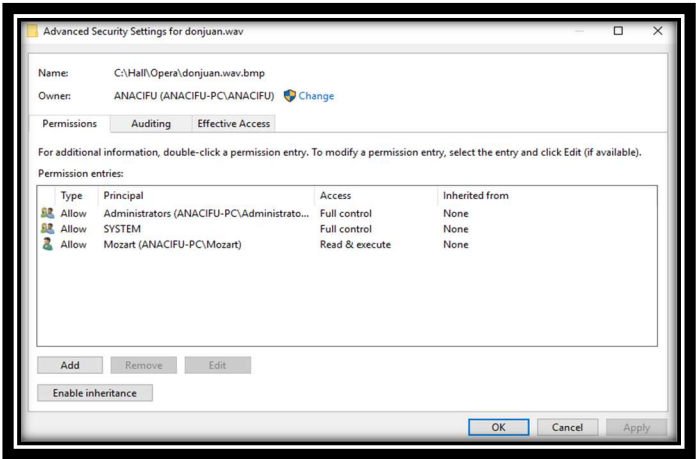
Now, check the permissions with the musician Albeniz.



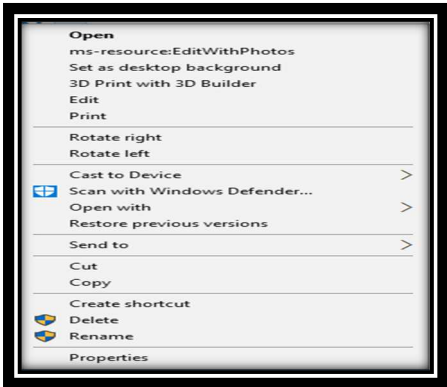
The file **donjuan.wav** can be accessed exclusively by **mozart**.



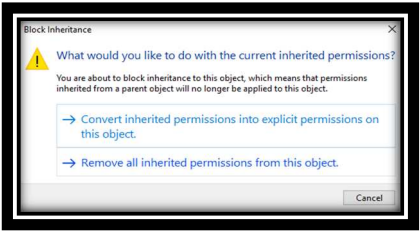
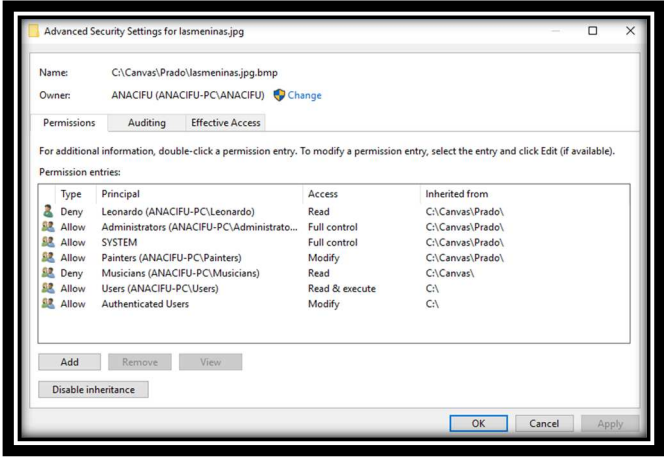
Disable inheritance



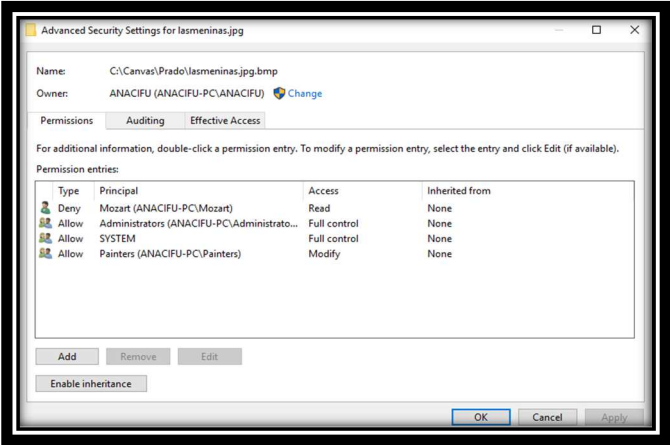
Now, check the permissions with the musician Chopin.



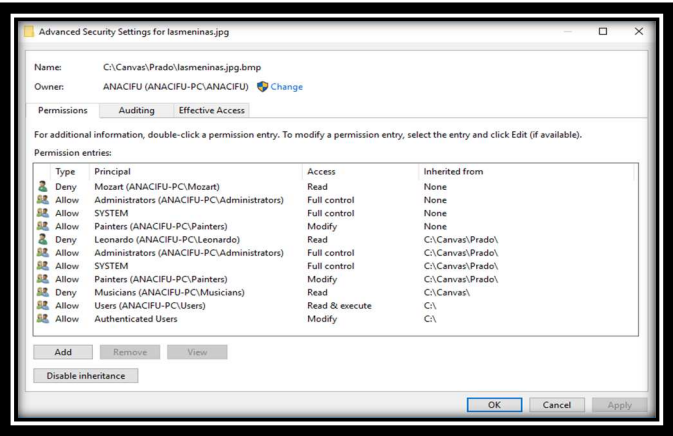
The file **lasmeninas.jpg** into prado can be opened by all the **painters** except **goya**.



Disable inheritance



With inheritance



Now, check the permissions with the musician Mozart.

