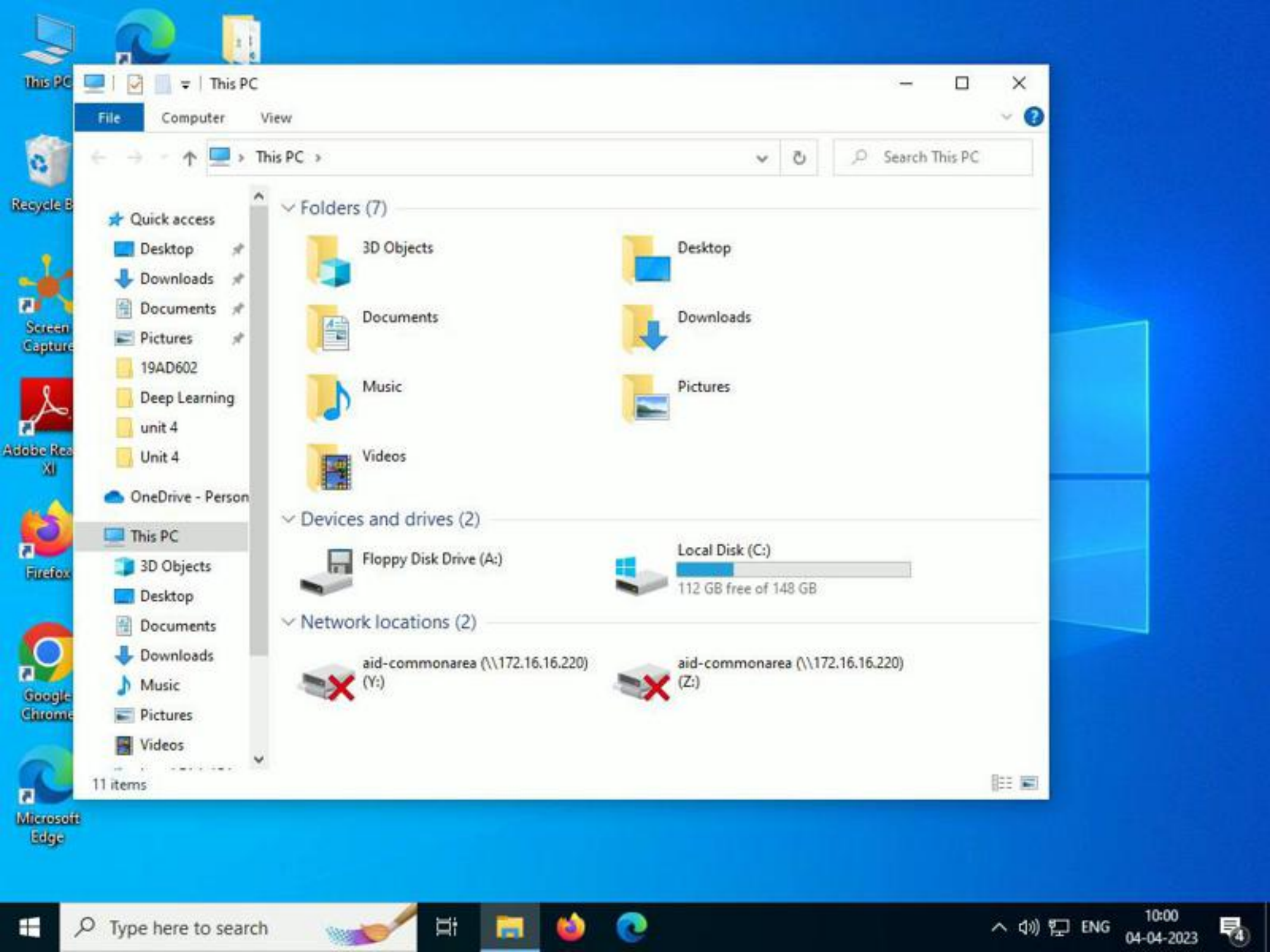
This PC
File
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View
This PC
Search This PC
Quick access
Desktop
Downloads
Documents
Pictures
19AD602
Deep Learning
unit 4
Unit 4
OneDrive - Person
This PC
3D Objects
Desktop
Documents
Downloads
Pictures
Videos
Folders (7)
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Devices and drives (2)
Floppy Disk Drive (A:)
Local Disk (C:)
112 GB free of 148 GB
Network locations (2)
aid-commonarea (\\172.16.16.220) (Y:)
aid-commonarea (\\172.16.16.220) (Z:)
11 items
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ENG
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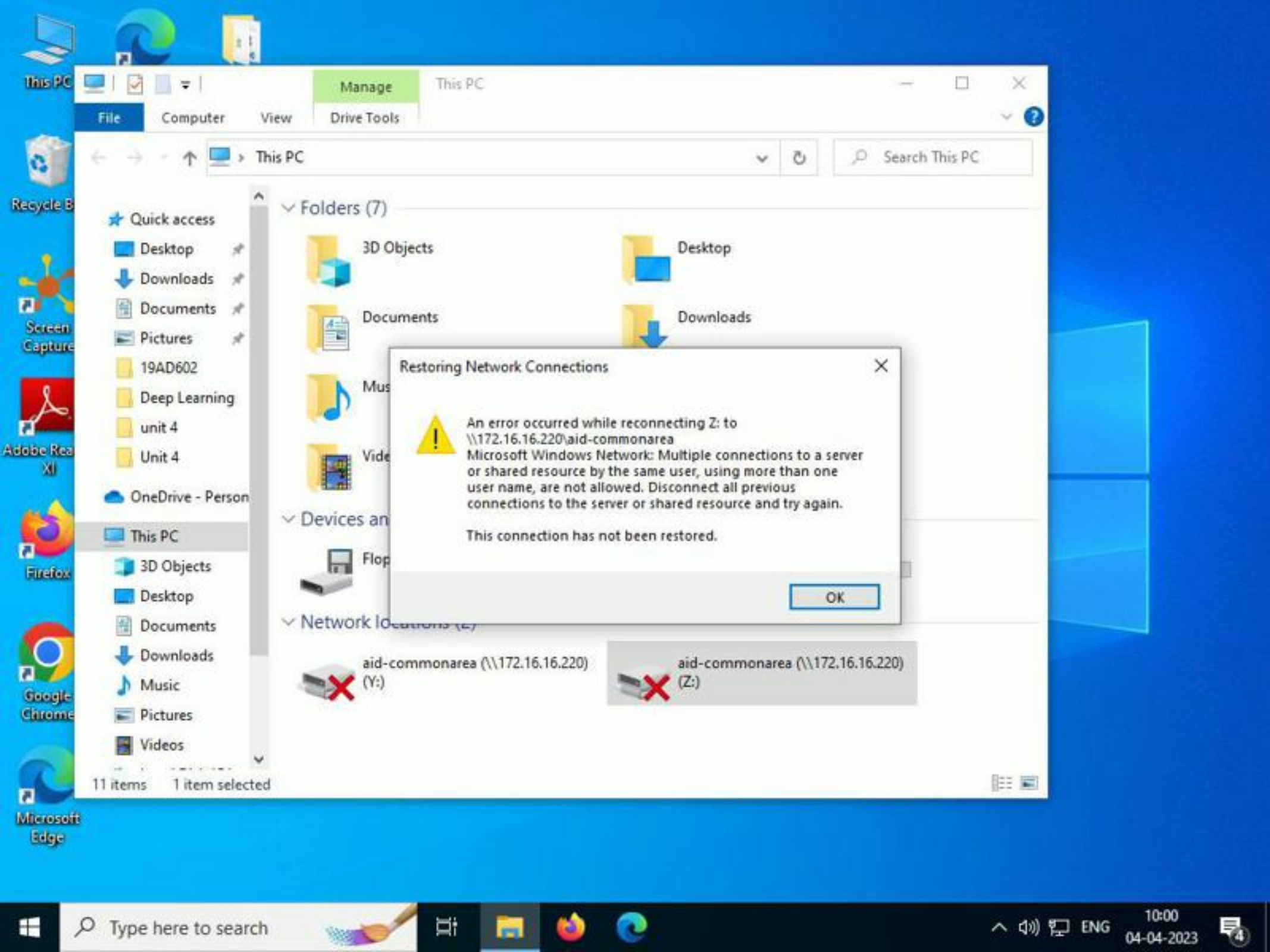
04-04-2023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Search This PC
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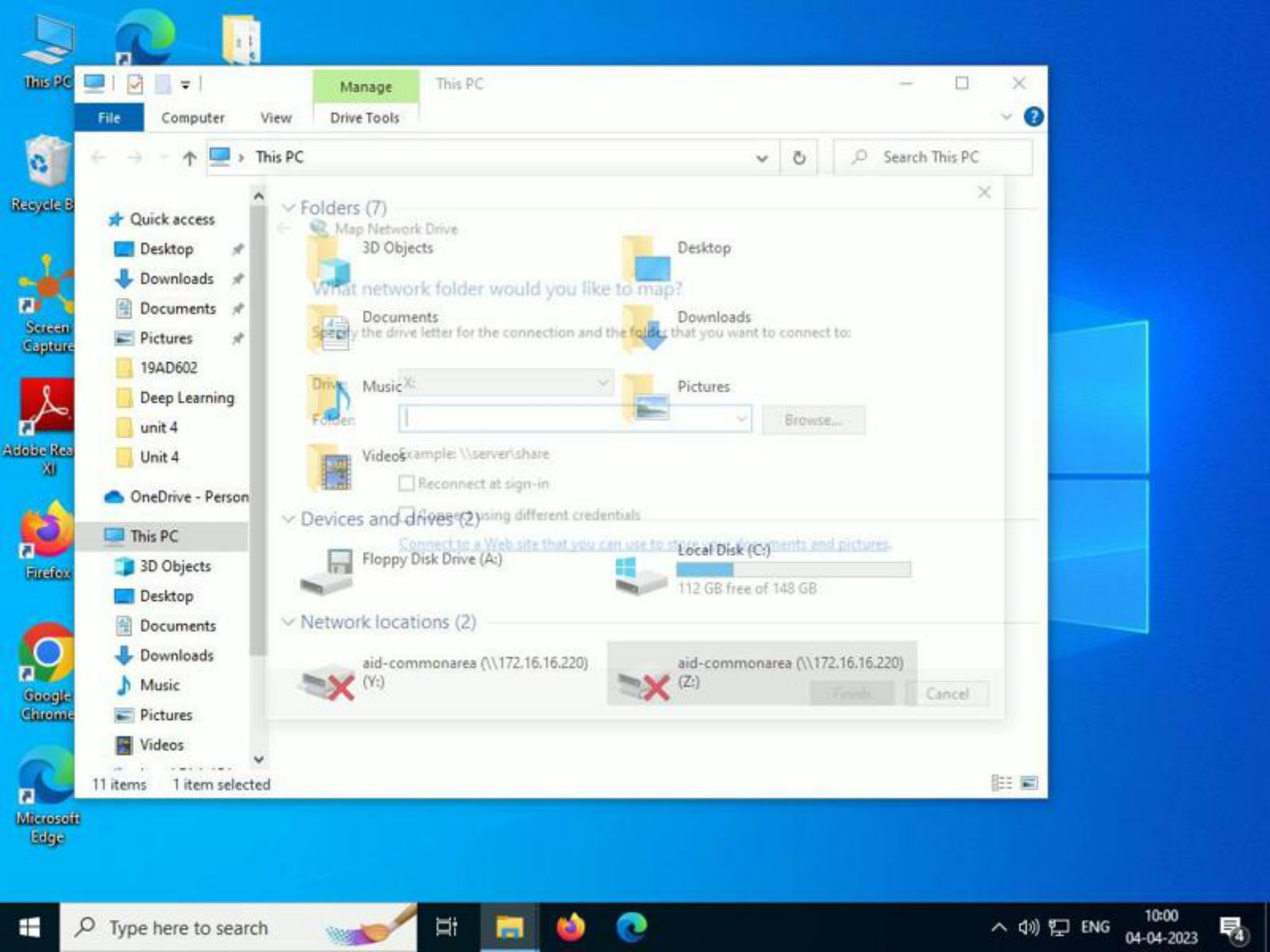
unit 4
Unit 4
OneDrive - Person
This PC
3D Objects
Desktop
Documents
Downloads
Pictures
Videos
Folders (7)
3D Objects
Desktop
Documents
Downloads
Restoring Network Connections
An error occurred while reconnecting Z: to \\172.16.16.220\aid-commonarea
Microsoft Windows Network: Multiple connections to a server or shared resource by the same user, using more than one user name, are not allowed. Disconnect all previous connections to the server or shared resource and try again.
This connection has not been restored.
OK
aid-commonarea (\\172.16.16.220) (Y:)
aid-commonarea (\\172.16.16.220) (Z:)
11 items
1 item selected
Type here to search
ENG
10:00
04-04-2023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Downloads
Documents
Pictures
19AD602
Deep Learning
unit 4
Unit 4
OneDrive - Person
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
11 items
1 item selected
Folders (7)
Map Network Drive
3D Objects
Desktop
What network folder would you like to map?
Documents
Downloads
Specify the drive letter for the connection and the folder that you want to connect to:
Drive:
Music
Pictures
Folder:
Browse...
Videos
Example: \\server\share
Reconnect at sign-in
Connect using different credentials
Connect to a Web site that you can use to store your documents and pictures.
Devices and drives (2)
Floppy Disk Drive (A:)
Local Disk (C:)
112 GB free of 148 GB
Network locations (2)
aid-commonarea (\\172.16.16.220) (Y:)
aid-commonarea (\\172.16.16.220) (Z:)
Finish
Cancel
Type here to search
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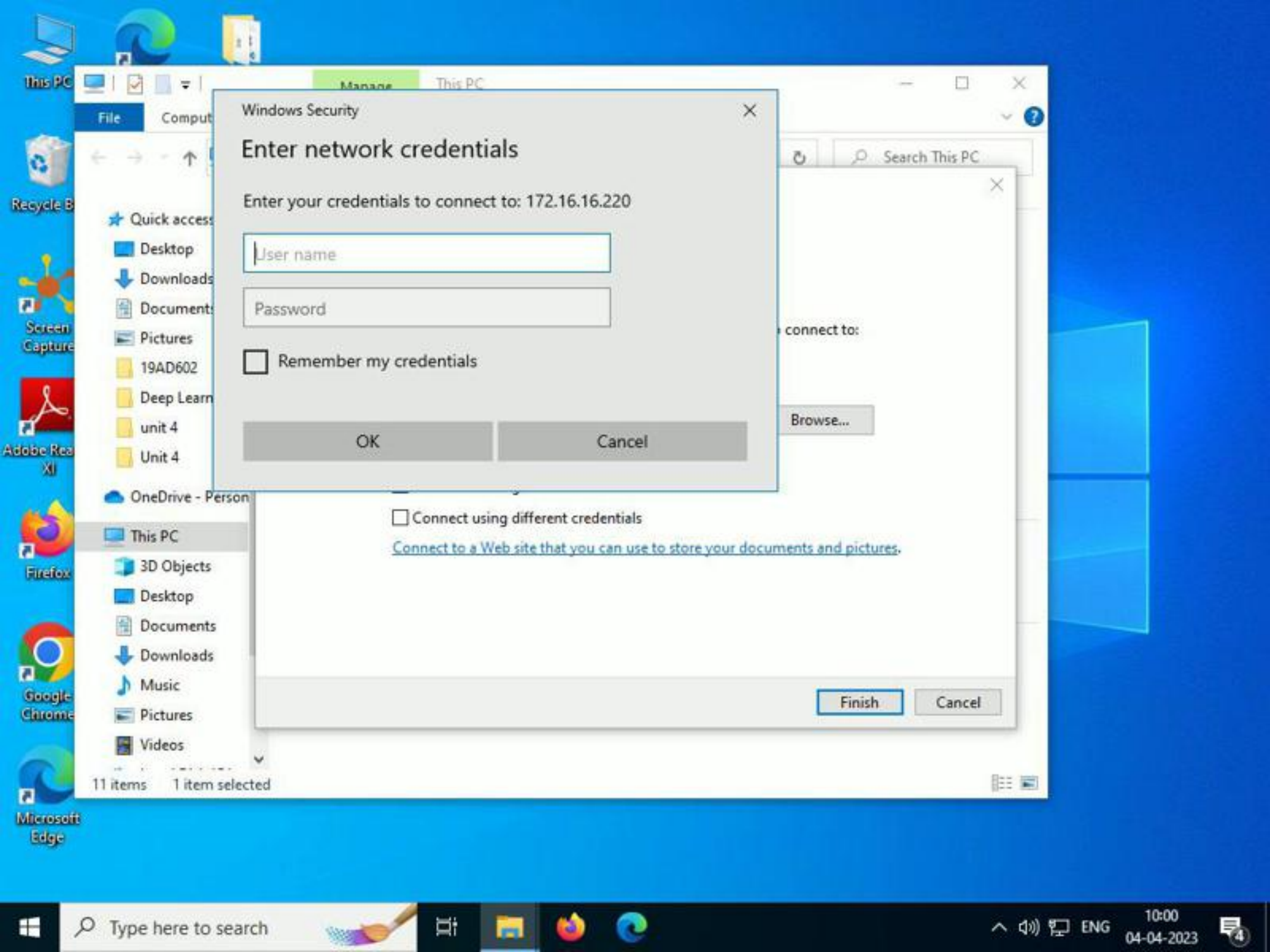
04-04-2023


Windows Security
Enter network credentials
Enter your credentials to connect to: 172.16.16.220
User name
Password
Remember my credentials
OK
Cancel
Browse...
Connect using different credentials
Connect to a Web site that you can use to store your documents and pictures.
Finish
Cancel
11 items
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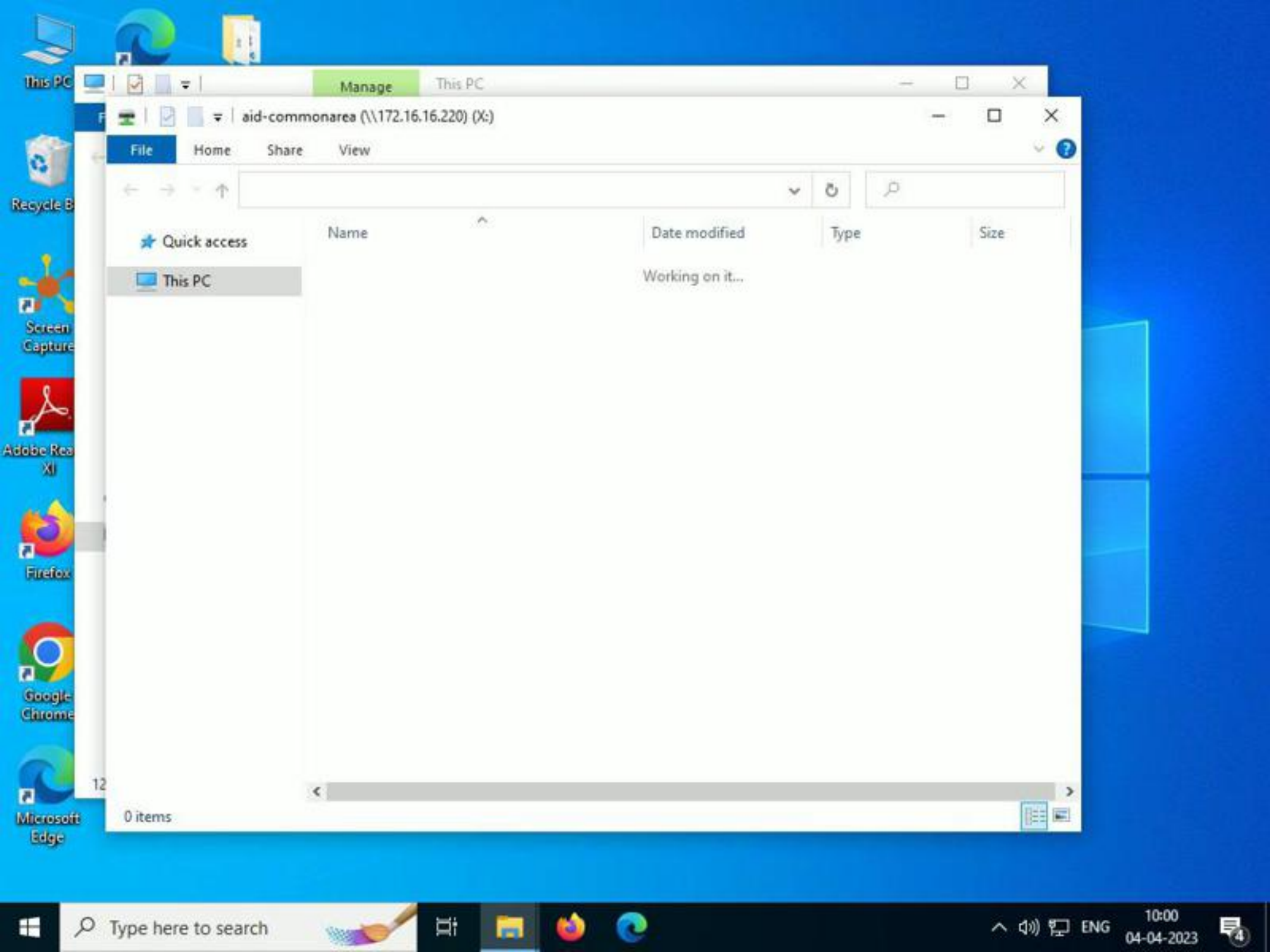
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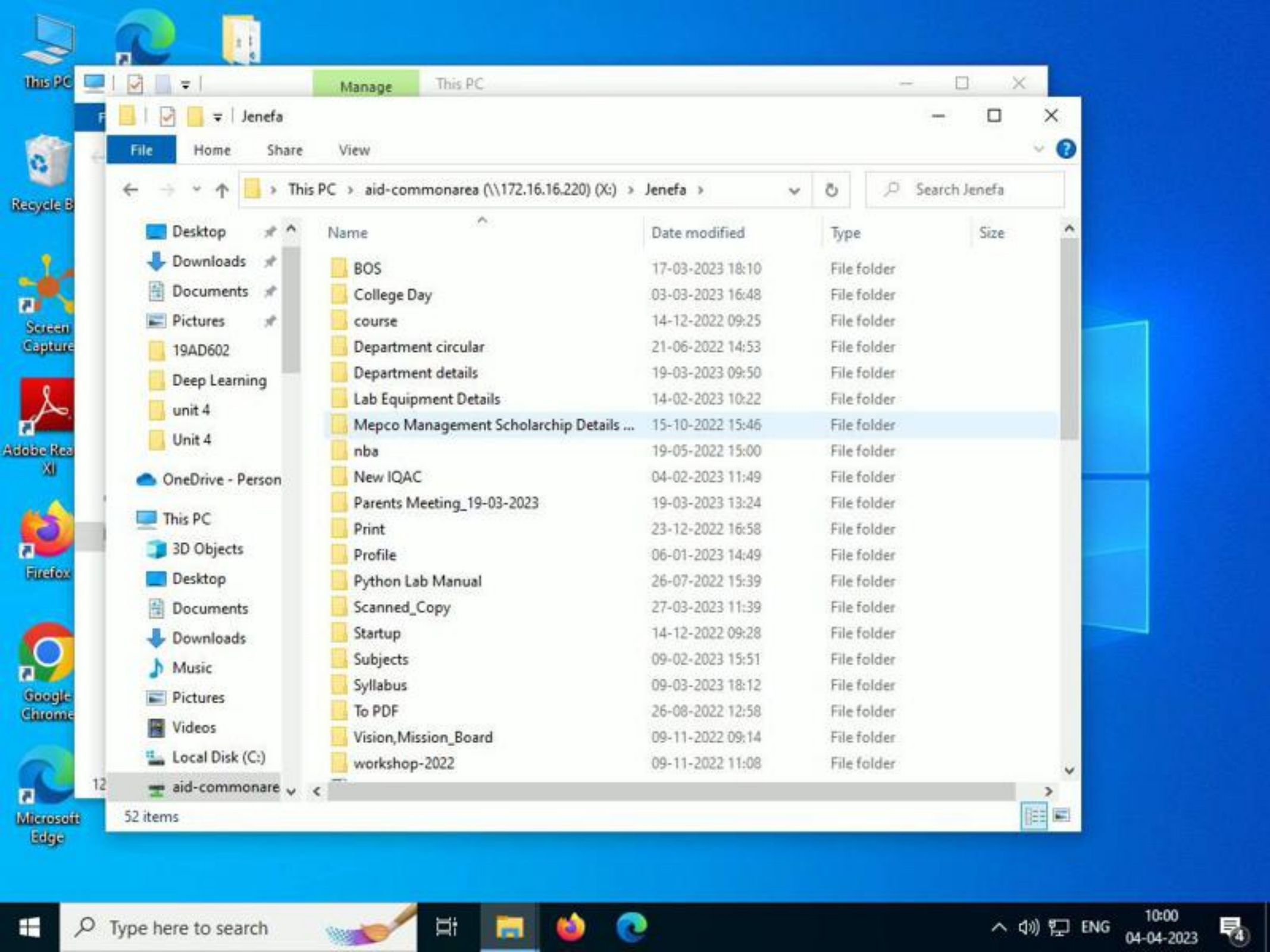
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College Day 03-03-2023 16:48 File folder
course 14-12-2022 09:25 File folder
Department circular 21-06-2022 14:53 File folder
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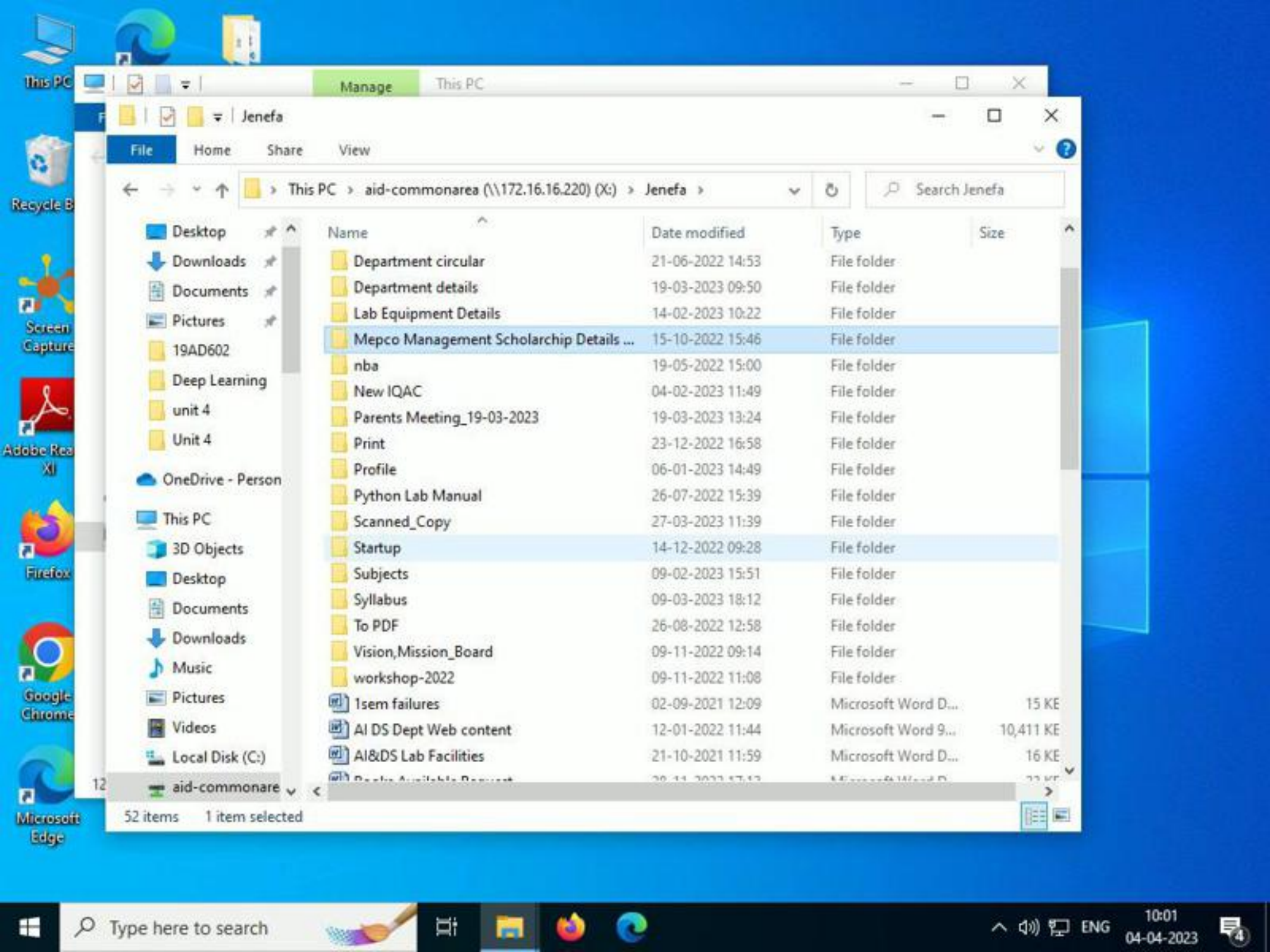
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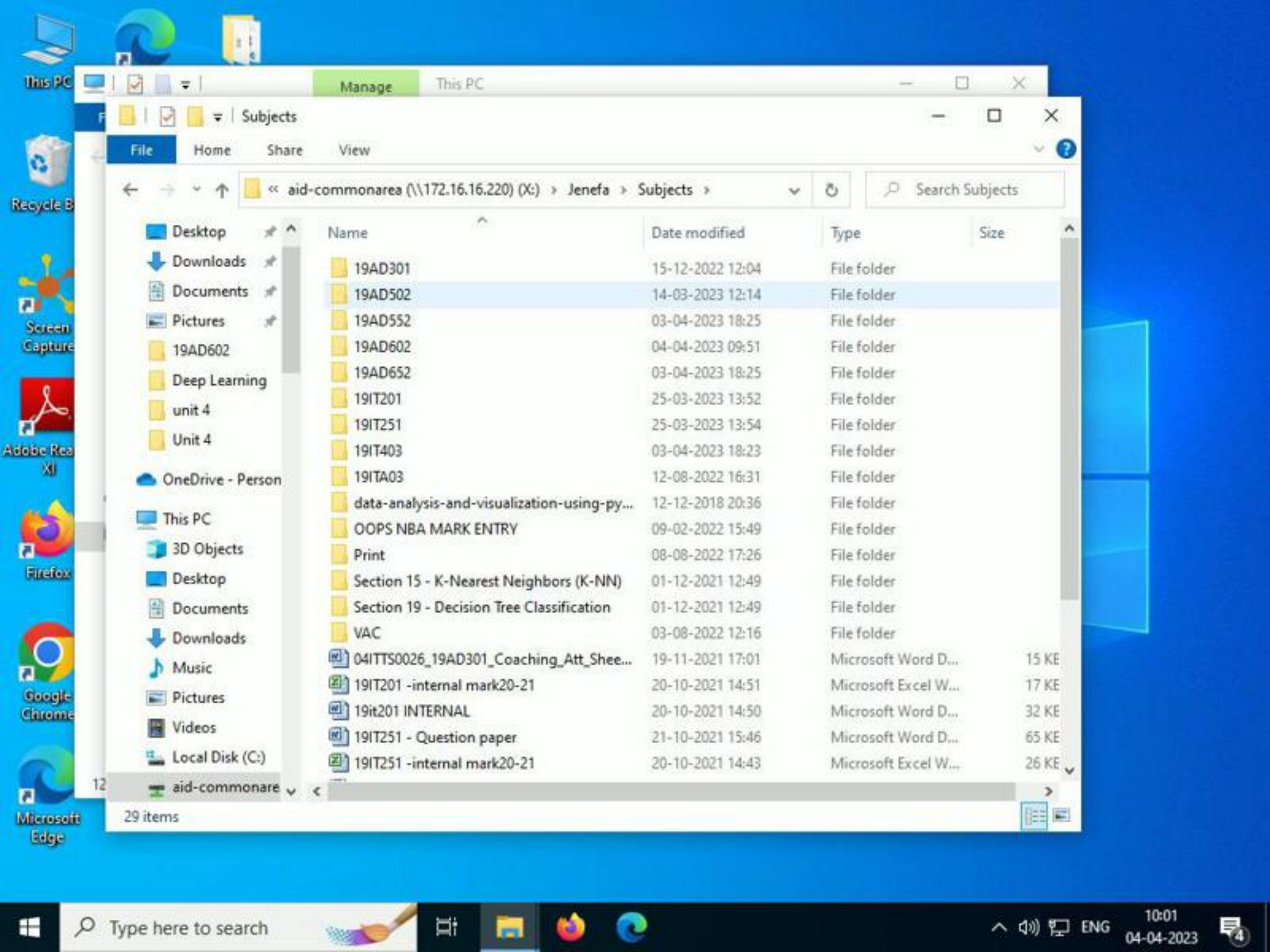
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Section 19 - Decision Tree Classification 01-12-2021 12:49 File folder
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19IT201 -internal mark20-21 20-10-2021 14:51 Microsoft Excel W... 17 KE
19it201 INTERNAL 20-10-2021 14:50 Microsoft Word D... 32 KE
19IT251 - Question paper 21-10-2021 15:46 Microsoft Word D... 65 KE
19IT251 -internal mark20-21 20-10-2021 14:43 Microsoft Excel W... 26 KE
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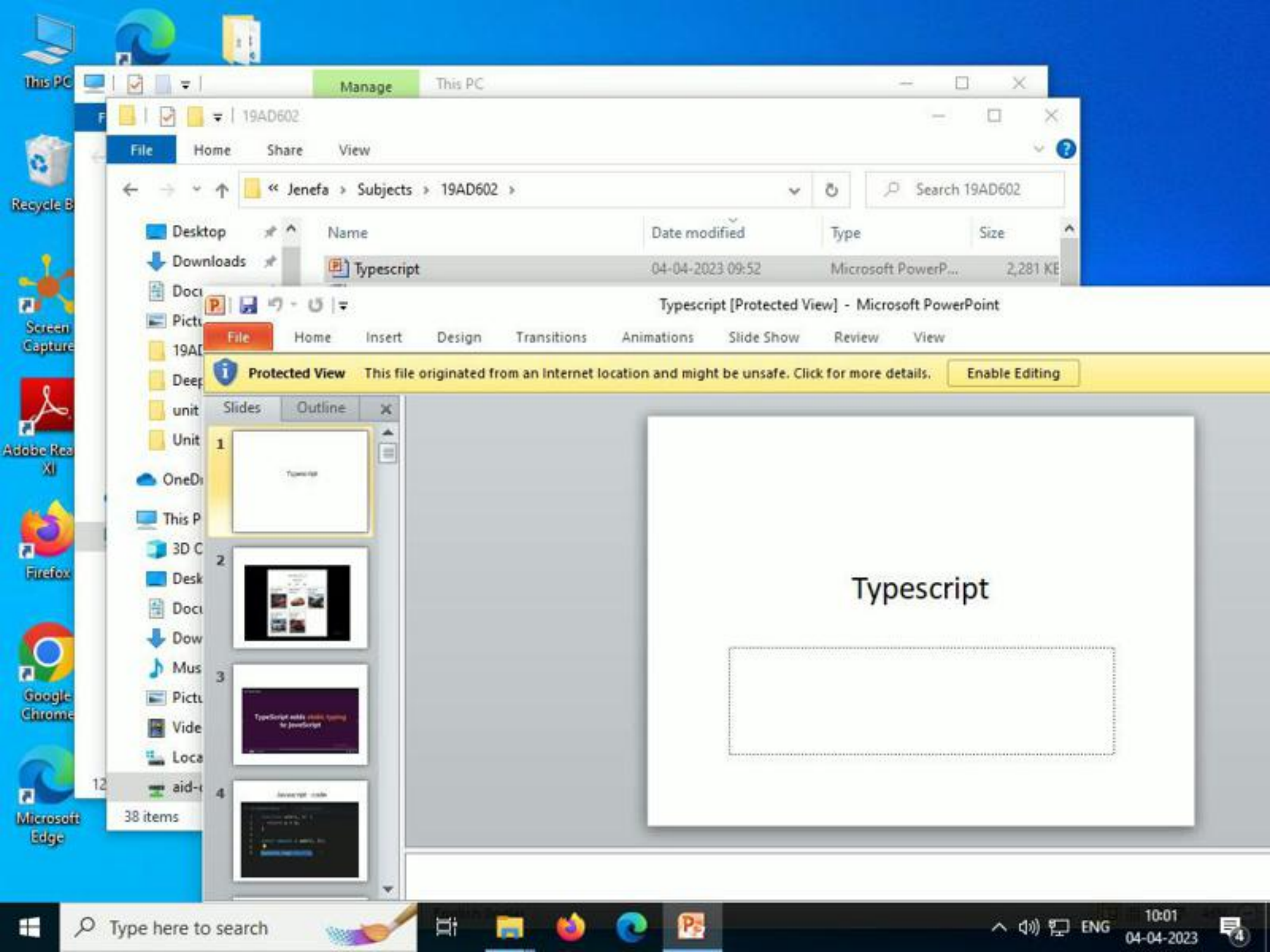
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Slides Outline

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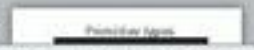

Typescript

Slide 1 of 67 "Office Theme" English (India) 76%

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Getters and Setters

```
class Planet {
private _name: string = "No name set";
get name() {
return `This planet's name is '${this._name}'.`;
}
set name(inName: string) {
if (inName === "Pluto") {
this._name = "Not a planet";
} else {
this._name = inName;
}
}
}
let p: Planet = new Planet();
alert(p.name); // 'No name set'.
p.name = "Pluto";
alert(p.name); // 'Not a planet' (sorry, little guy!)
p.name = "Venus";
alert(p.name); // 'Venus'
```





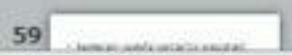

- TypeScript-specific syntax for important namespaces, the /// symbol.
- To use it, in the app.ts file,
- /// <reference path="file1.ts" />
- /// <reference path="file2.ts" />
- TypeScript, at compile time, will take care of bundling those files together.
- Once you have the code bundled
- import h = MyFirstNamespace.homeworld;
- alert(h) to see “Jakku.”







- namespaces can break into multiple files:
- // app.ts
- SomeNS.someFunc1();
- SomeNS.someFunc2();
- // file1.ts
- namespace SomeNS { export someFunc1() { } }
- // file2.ts
- namespace SomeNS { export someFund2() { } }



Namespaces and Modules

- Namespaces and modules are two concepts that help you to organize your TypeScript code by partitioning them in some logical fashion
- namespace MyFirstNamespace {
- export let homeworld = "Jakku";
- export function sayName() { alert("Rey"); };
- }
- alert(MyFirstNamespace.homeworld);
- MyFirstNamespace.sayName();
- namespace MyFirstNamespace {
- export class Jedi { }
- export interface RebelScum { }
- }

Extending Interfaces

- interface IPerson {
- firstName: string;
- }
- interface INinja extends IPerson {
- numberOfSwords: number;
- }
- let ninja = {} as INinja;
- ninja.firstName = "Ryuki";
- ninja.numberOfSwords = 2;

Namespaces and Modules

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- namespace MyFirstNamespace {
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- export function sayName() { alert("Rey"); };
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Namespaces and Modules

- Namespaces and modules are two concepts that help you to organize your TypeScript code by partitioning them in some logical fashion
- namespace MyFirstNamespace {
- export let homeworld = "Jakku";
- export function sayName() { alert("Rey"); };
- }
- alert(MyFirstNamespace.homeworld);
- MyFirstNamespace.sayName();
- namespace MyFirstNamespace {
- export class Jedi { }
- export interface RebelScum { }
- }

Namespaces

- JavaScript code produced from this TypeScript code:
- "use strict";
- var MyFirstNamespace;
- (function (MyFirstNamespace) {
- MyFirstNamespace.homeworld = "Jakku";
- function sayName() { alert("Rey"); }
- MyFirstNamespace.sayName = sayName;
- ;
- })(MyFirstNamespace || (MyFirstNamespace = {}));
- alert(MyFirstNamespace.homeworld);
- MyFirstNamespace.sayName();

- TypeScript uses the **IIFE (Immediately Invoked Function Expression)** pattern to keep the namespace's contents separate from everything else on the page when the code finally executes
- namespace MyFirstNamespace {
- export let homeworld = "Jakku";
- }
- const homeworld = "Coruscant";
- alert(MyFirstNamespace.homeworld); // Jakku
- alert(homeworld); // Coruscant

- namespaces can break into multiple files:
- // app.ts
- SomeNS.someFunc1();
- SomeNS.someFunc2();
- // file1.ts
- namespace SomeNS { export someFunc1() { } }
- // file2.ts
- namespace SomeNS { export someFund2() { } }

- To use it import both of the resultant .js files (file1.js and file2.js) in the HTML file
- Also need to import app.js
- Instead of having to import multiple .js files in the HTML document, you can instead have tsc bundle them for you:
- **tsc --outFile main.js file1.ts file2.ts app.ts**
- When bundling like this, you must be aware that order can matter. The files are concatenated in the order you provide

- TypeScript-specific syntax for important namespaces, the /// symbol.
- To use it, in the app.ts file,
- /// <reference path="file1.ts" />
- /// <reference path="file2.ts" />
- TypeScript, at compile time, will take care of bundling those files together.
- Once you have the code bundled
- import h = MyFirstNamespace.homeworld;
- alert(h) to see “Jakku.”

Nested namespace

- namespace SomeNS {
- export namespace InnerNS {
- export someFunc() { }
- }
- }
- SomeNS.InnerNS.someFunc();
- To use it:
- import sf = SomeNS.InnerNS.someFunc;
- sf();

- **namespaces** are more lightweight and are purely about **code organization**
- **classes** are about ***things***
- ***interfaces*** *are about* ***contracts***

Modules

- A module is defined as any TypeScript source file that contains one or more import or export statements
- // Variable
- export let captain = "Picard";
- // Interface
- export interface CaptainChecker {
- isGreat(inName: string): boolean;
- }
- // Function
- export function addFirst(inLast: string): string {
- return "Jean Luc " + inLast;
- }
- // Class
- export class Ship {
- const name = "Enterprise";
- }
- // Type alias
- export type cap = captain;

- Import { addFirst } from "./MyModule“
- execute it like any other function:
- addFirst("Riker"); // Wrong last name, but not the point!
- Alternatively, you could write your module like so:
- function addFirst(inLast: string): string {
- return "Jean Luc " + inLast;
- }
- export addFirst;

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- // Class
- export class Ship {
- const name = "Enterprise";
- }
- // Type alias
- export type cap = captain;

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- return "Jean Luc " + inLast;
- }
- // Class
- export class Ship {
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- }
- // Type alias
- export type cap = captain;

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- return "Jean Luc " + inLast;
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- // Class
- export class Ship {
- const name = "Enterprise";
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- // Type alias
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- Alternatively, you could write your module like so:
- function addFirst(inLast: string): string {
- return "Jean Luc " + inLast;
- }
- export addFirst;

- export { addFirst as myAddFirstFunc }
- If you want to import an entire module, there is a handy shortcut for that:
- import * as TheModule from "./MyModule“
- export default let captain = "Picard";
- What that does for you is that now your import can be this:
- import cap from "./MyModule"

- export { addFirst as myAddFirstFunc }
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- export default let captain = "Picard";
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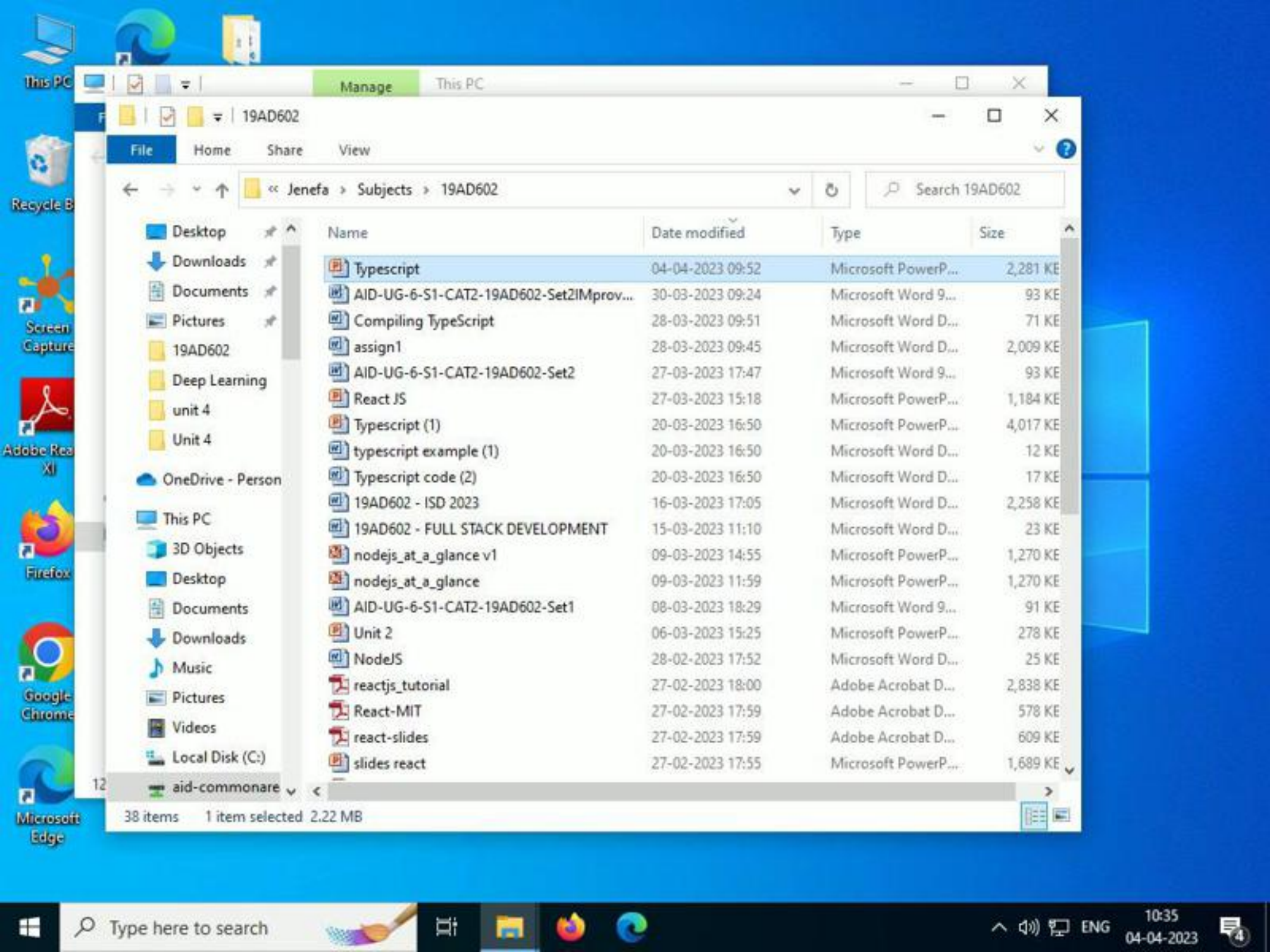
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