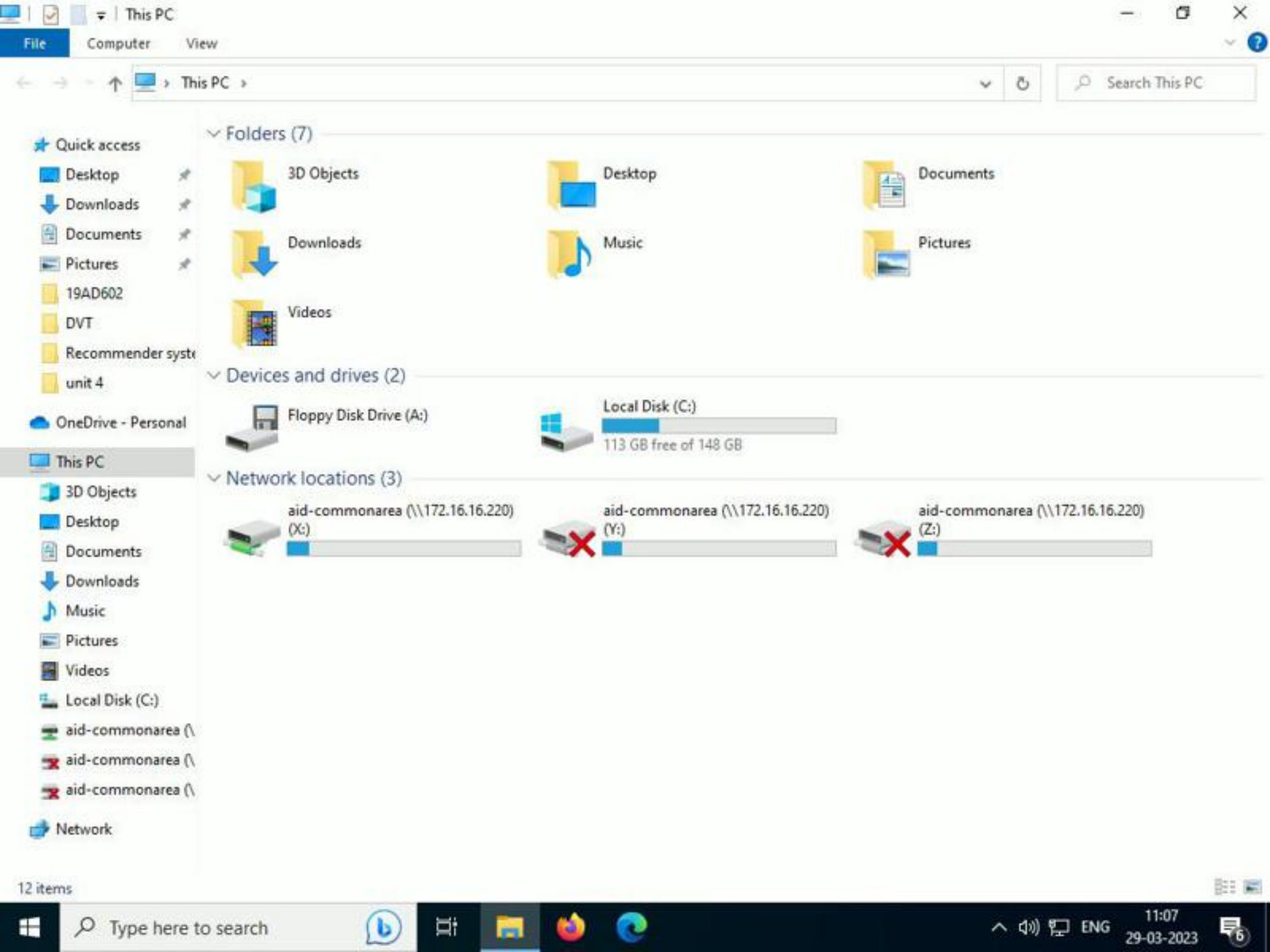
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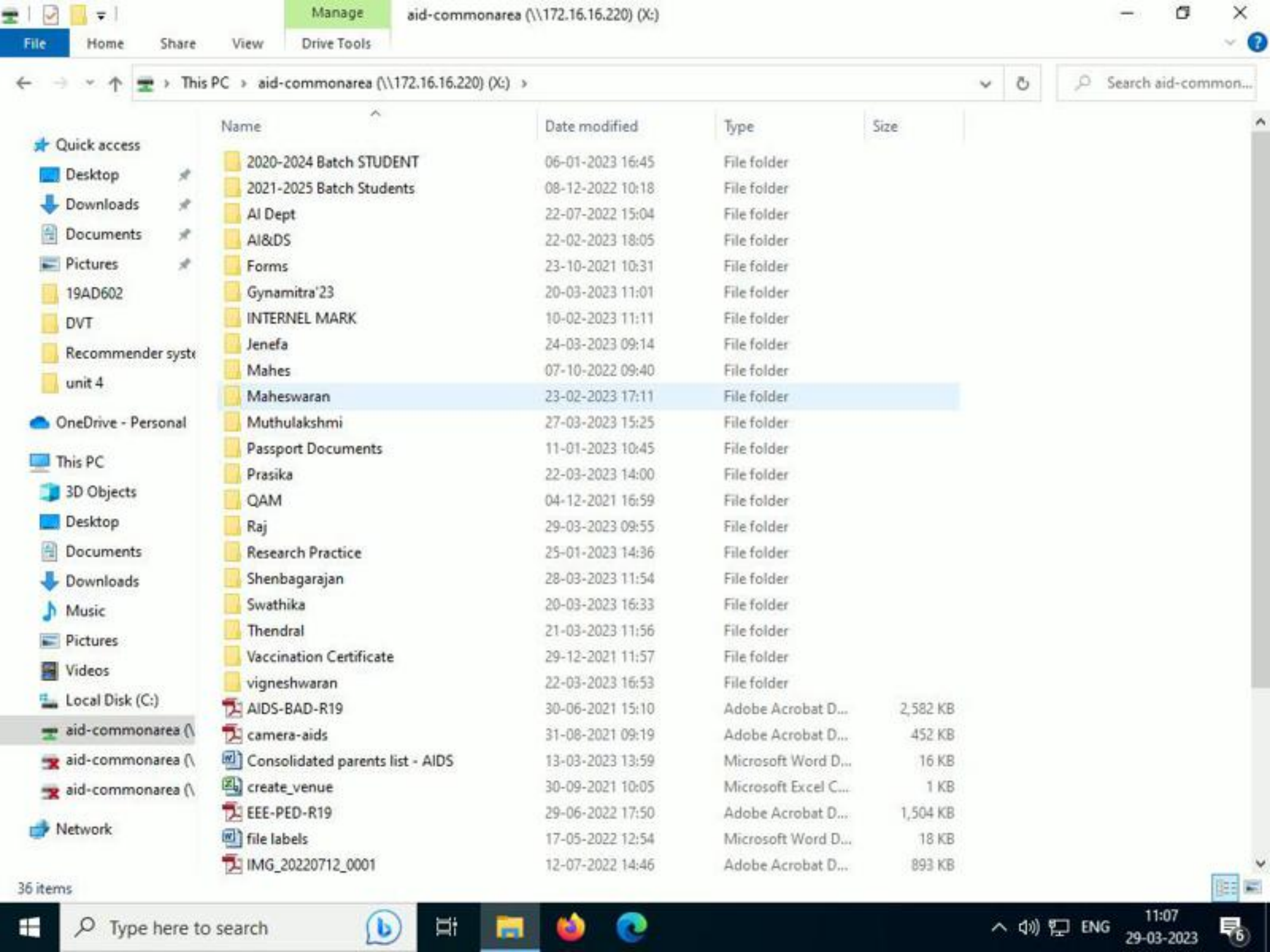
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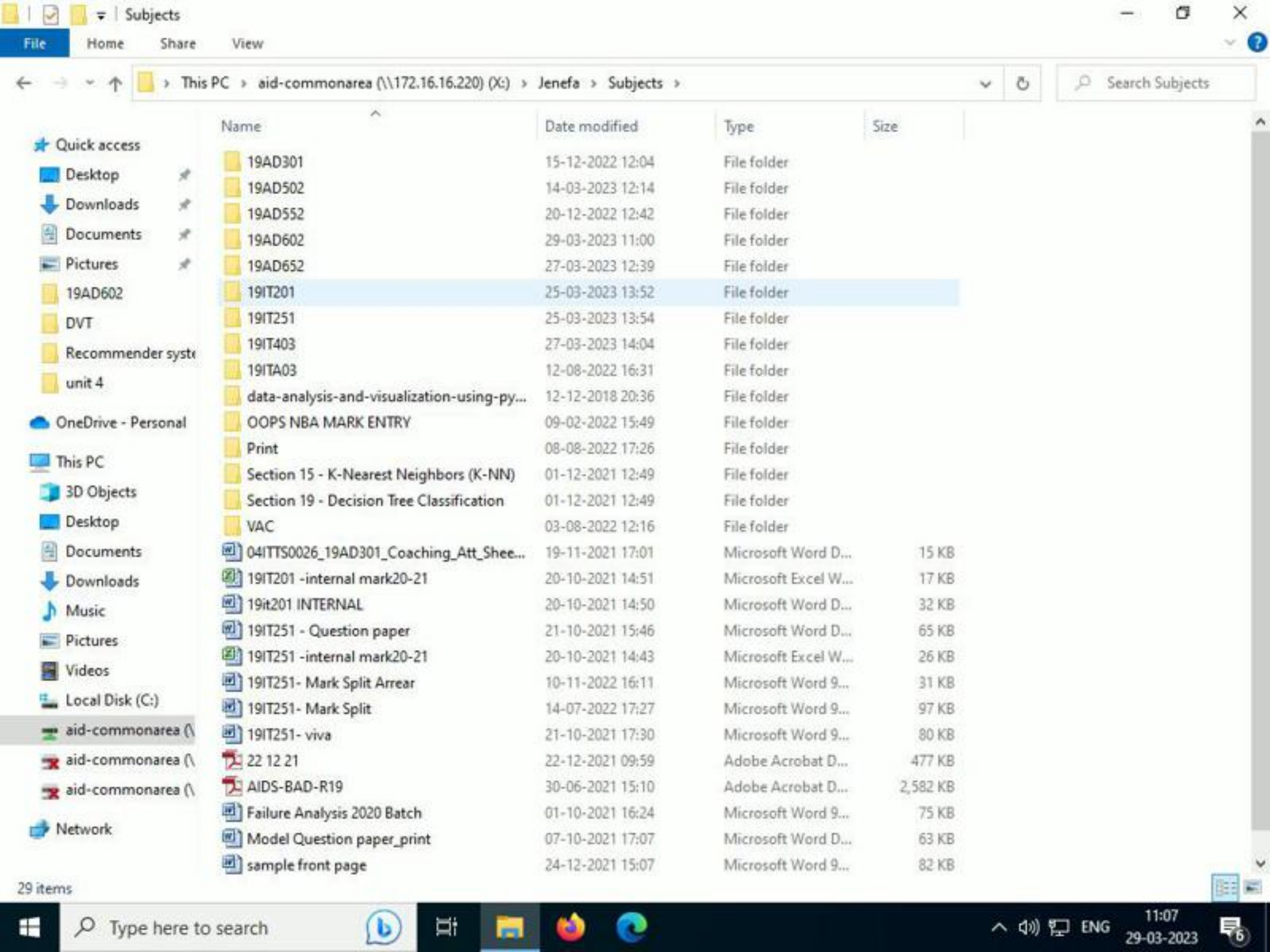
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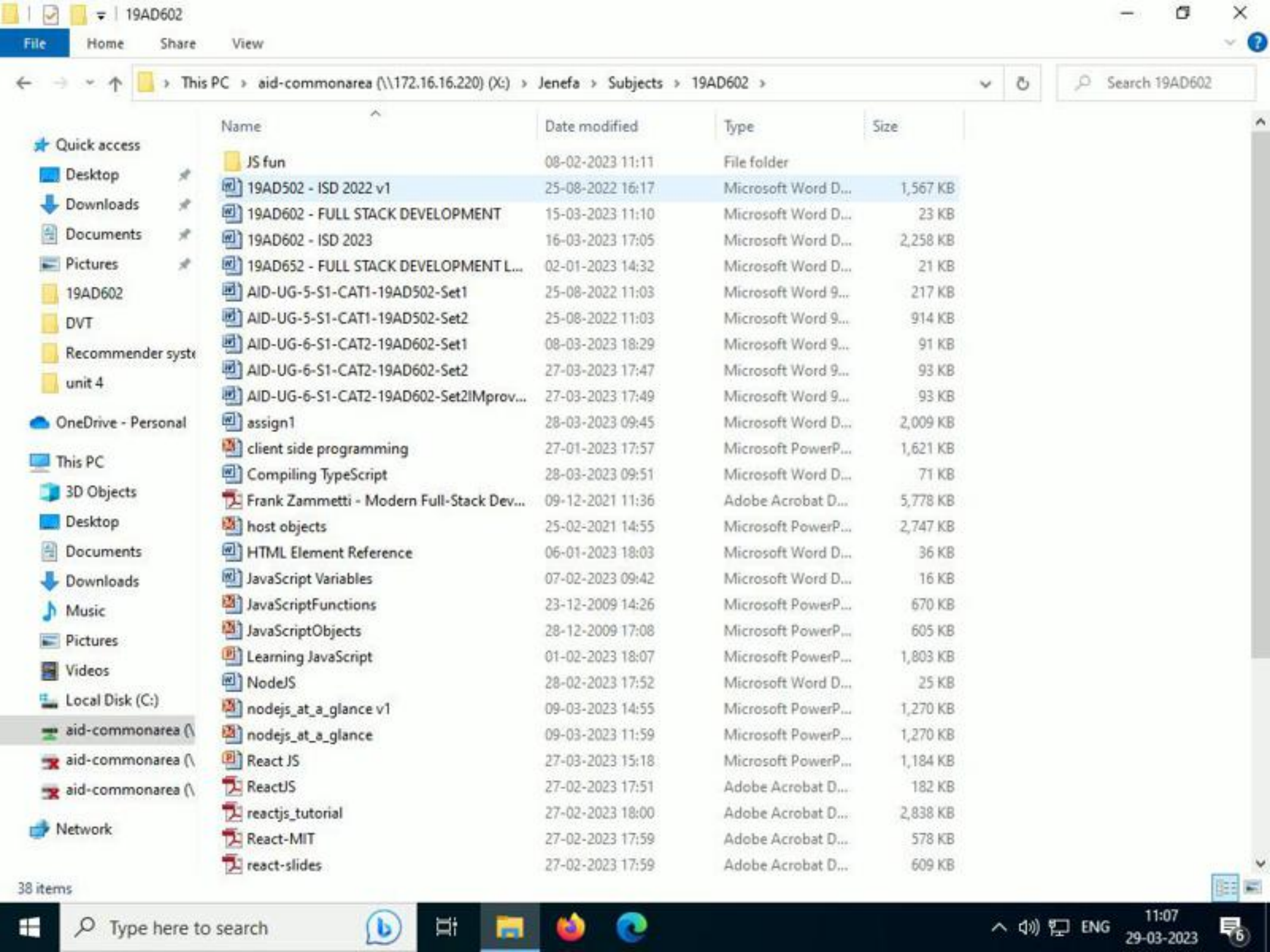
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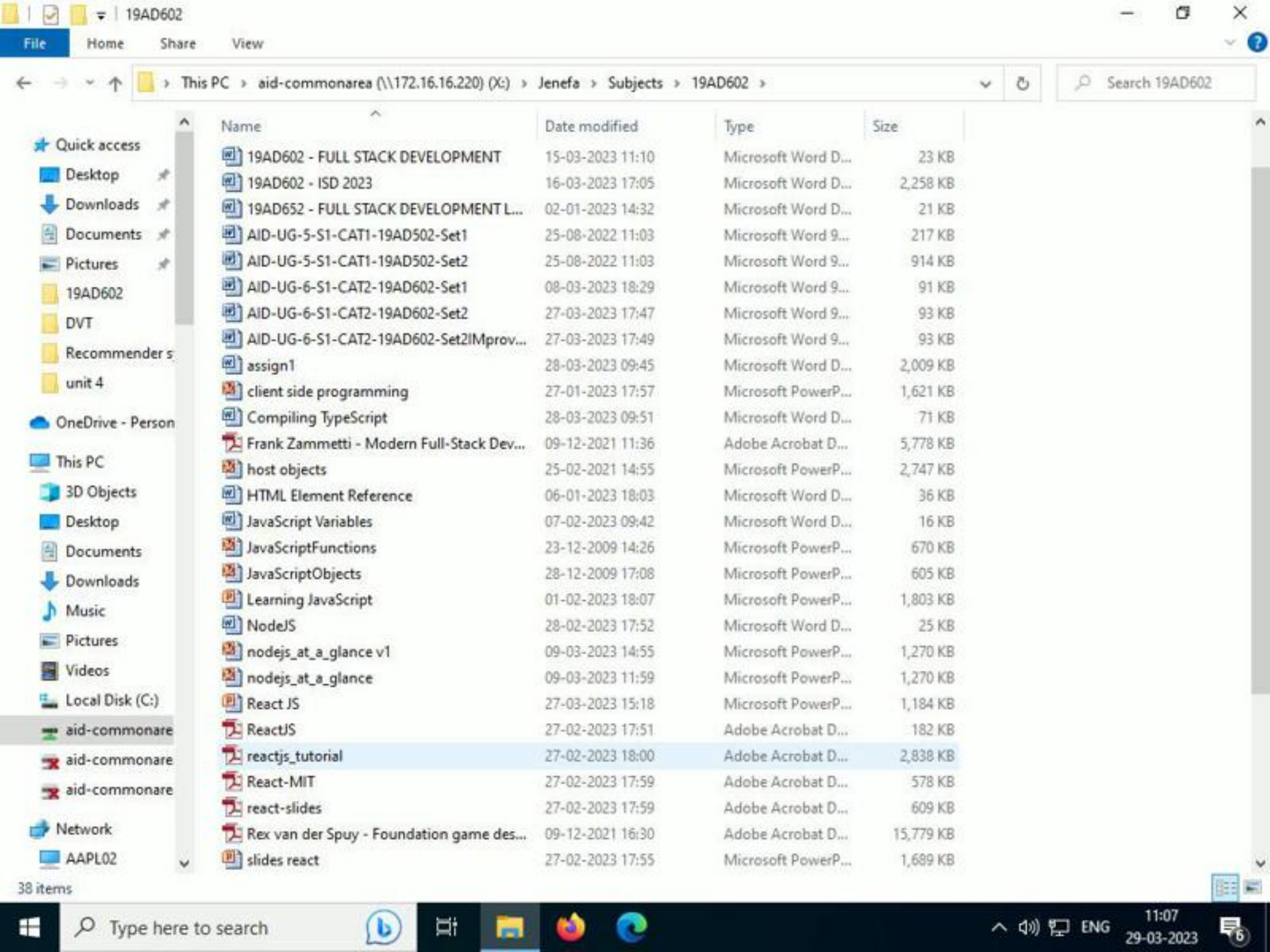
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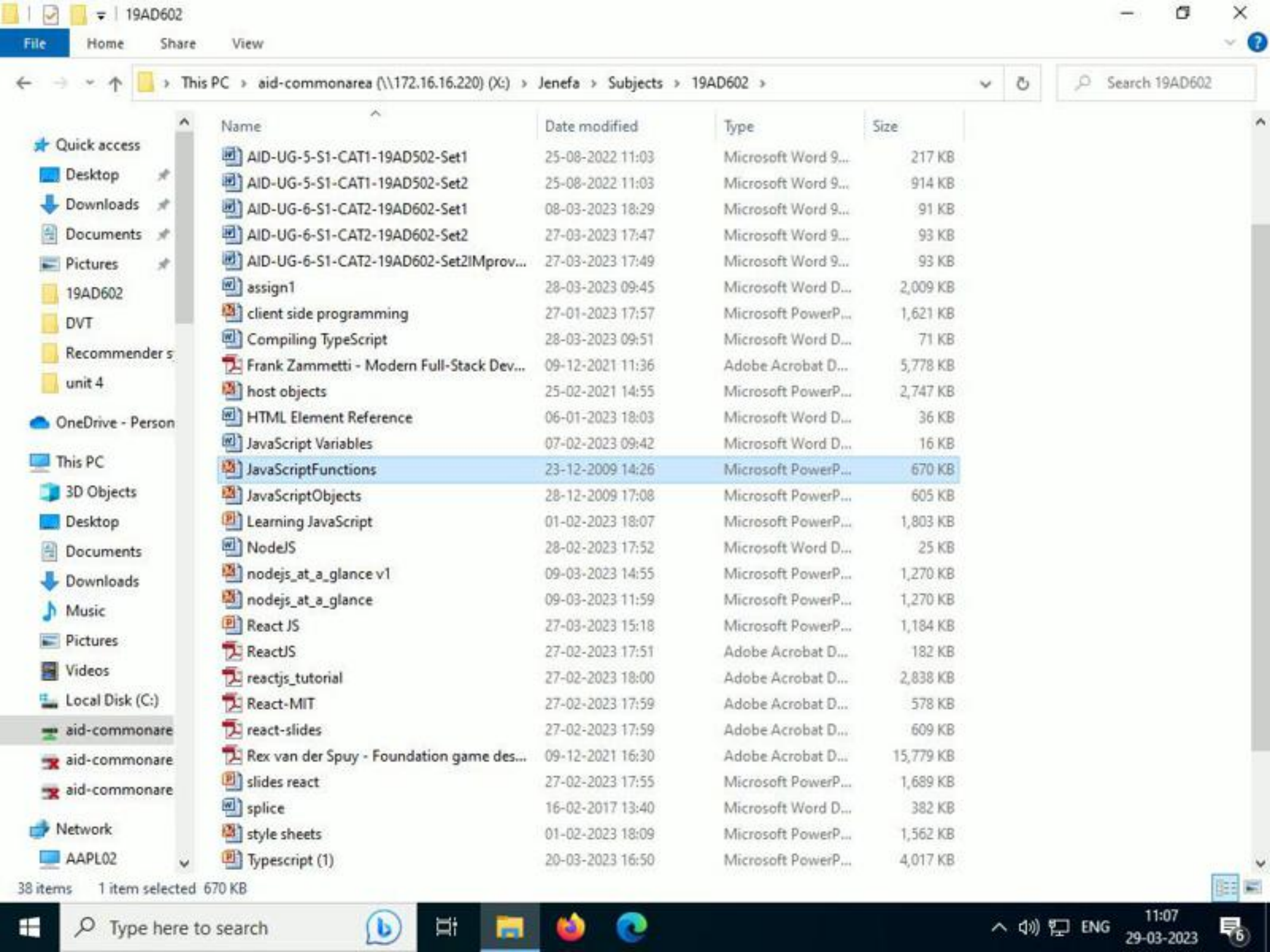
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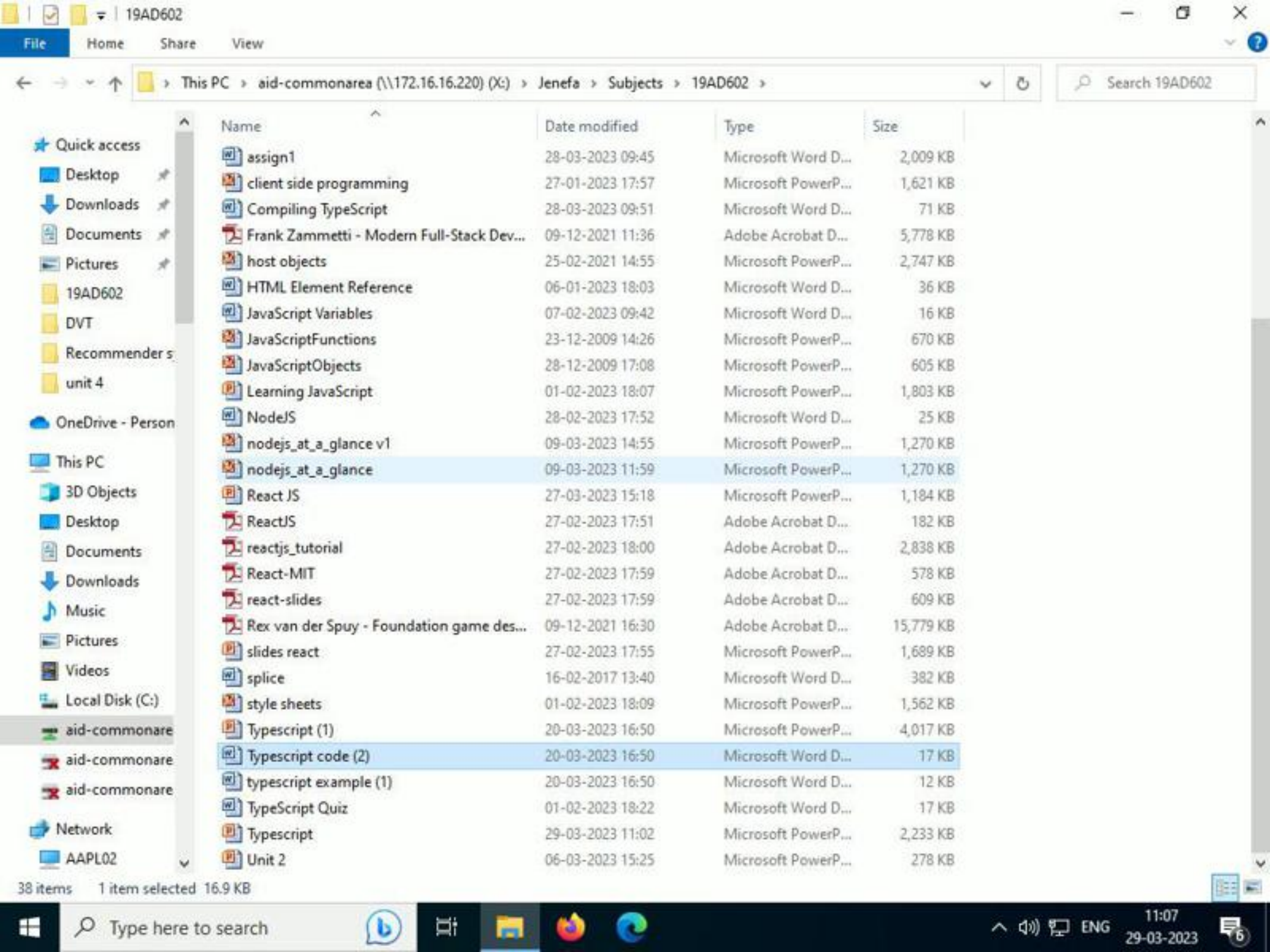
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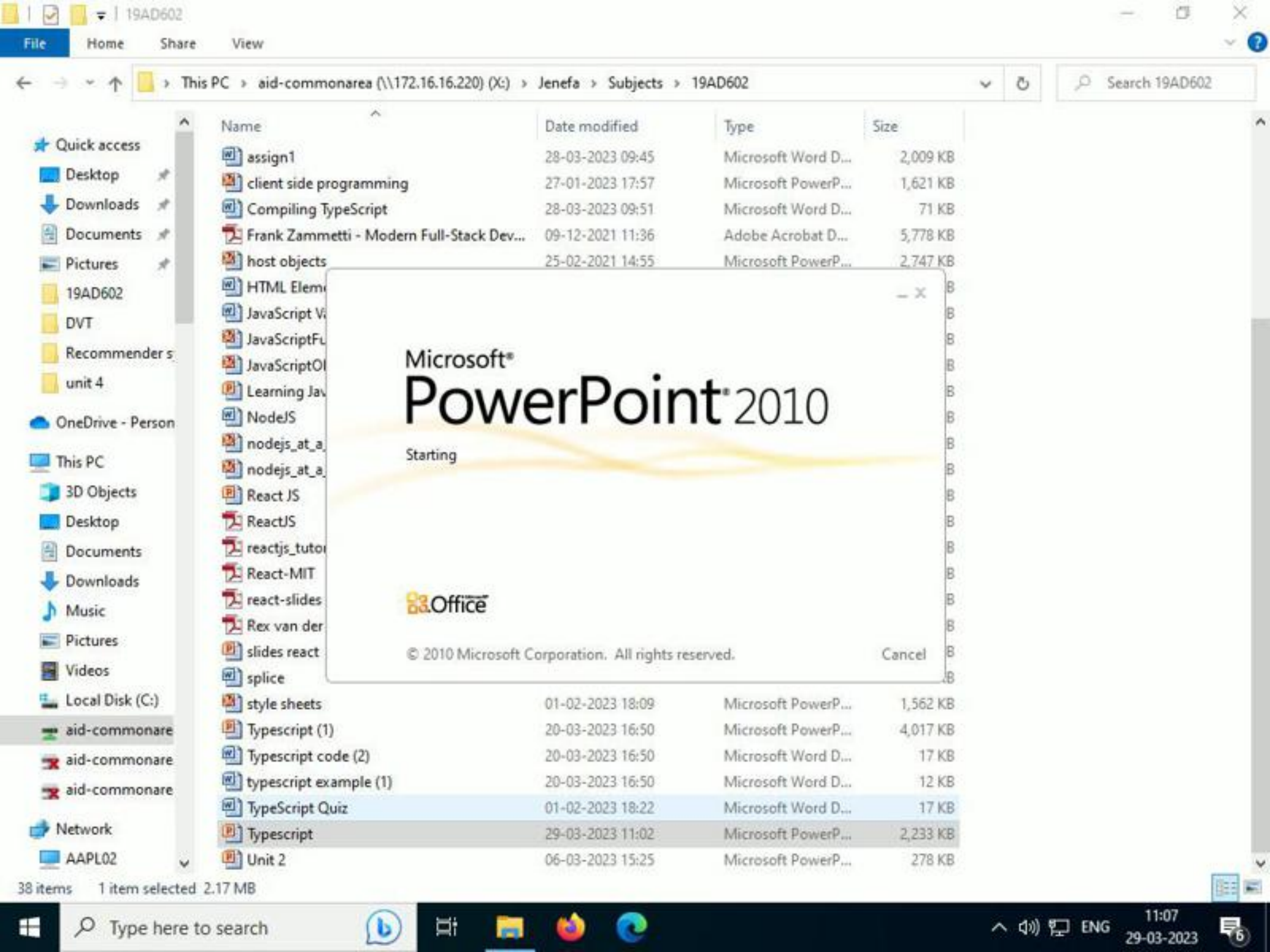
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Types

- function sayHi(humanName: string) {
- You can also declare the type a function returns:
- function concatStrings(str1: string, str2: string): string { }

Types

- function sayHi(humanName: string) {
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- function sayHi(humanName: string) {
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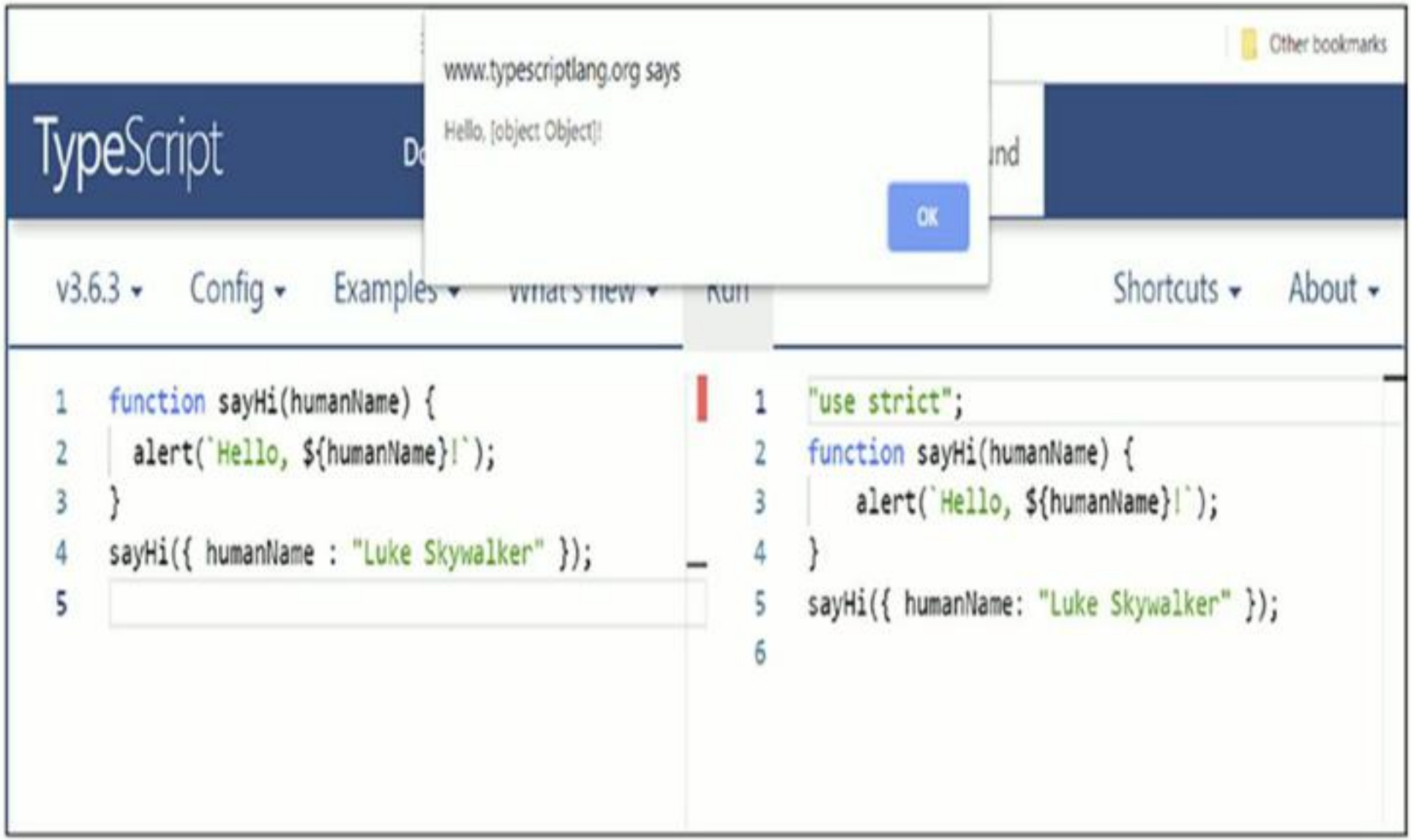
Example code



Types

- function sayHi(humanName: string) {
- You can also declare the type a function returns:
- function concatStrings(str1: string, str2: string): string { }

- String
  - const bestShowEver = "Babylon 5";
  - const bestShowEver: string = "Babylon 5";
- Number
  - const a: number = 42;
  - const b: number = 3.14;
  - const a: number = 0xf00d;
  - const b: number = 0o744; // Zero followed by lower-case o

- Boolean
  - const isThisTheBestBookEver: boolean = true;
  - const isThisTheBestBookEver: boolean = 1; // Compiler error
- Any
  - let accountBalance;
  - accountBalance = 15000;
  - accountBalance = "15000";
  - let food: any = "pizza";
  - food = 123; // This is now okay

- Arrays
  - const pets = ["Belle", "Bubbles"];
  - const pets: string[] = ["Belle", "Bubbles"];
  - const pets: any[] = ["Belle", 42];
- Tuples
  - const authors = ["Frank", 46];
  - const authors: [string, number] = ["Frank", 46];

- Enums
  - const Pizza = 0;
  - const FriedChicken = 1;
  - const IceCream = 2;
- enum Food { Pizza, FriedChicken, IceCream };
- let myFavoriteFood: Food.FriedChicken;
- alert(myFavoriteFood);

Function

- let myMathFunction: (num1: number, num2: number) => string;
  - function add(n1: number, n2: number): string {
  - return "" + n1 + n2;
  - }
  - myMathFunction = add;
  - function multiply(a: number, b: number): number {
  - return a * b;
  - }
  - myMathFunction = multiply;

Object

- let person = {
- firstName : "John", lastName : "Sheridan", age : 52
- };

- TypeScript infers the type of the object, including its properties, and this is termed an *object type.*
- trying to do person = { a :"John", b : "Sheridan", age : 52 } will be an error
  - let person: {
  - firstName: string, lastName: string, age: number
  - } = {
  - firstName : "John", lastName : "Sheridan", age : 52
  - };

Null, Void, and Undefined

- let favoriteCar = "Camaro";
- favoriteCar = null;
- null is considered subtypes of all other types
- let myFavoriteNumber: number = null;
- let myFavoriteString: string = null;
- null is undefined
  - let favoriteCar;
  - let favoriteCar = undefined;

Block Scope

- function test() {
- if (true) {
- var greeting = "hello";
- }
- alert(greeting);
- }
- test();

Arrow Functions

- const test = (name) => {
- alert(`Hello, ${name}`);
- }
- test("Jack");
- const addNums = (a, b) => a + b;
- alert(addNums(2, 3));
- const addNums = (a: number, b: number): number => a + b;
- alert(addNums(2, 3));

Class

- In TypeScript, a class is similar to a class in other object-oriented programming languages like Java and C#.
- A class is a blueprint for creating objects that share the same properties and behavior.
- It defines the properties and methods of an object, and we can create instances of the class, known as objects, that have their own unique values for the properties.

```
class Person {
  // Properties
  private name: string;
  private age: number;

  // Constructor
  constructor(name: string, age: number) {
    this.name = name;
    this.age = age;
  }

  // Methods
  sayHello() {
    console.log(`Hello, my name is ${this.name}`);
  }

  birthday() {
    this.age++;
    console.log(`Happy birthday! Now I am ${this.age} years old.`);
  }
}
```

```
class Person {
  // Properties
  private name: string;
  private age: number;

  // Constructor
  constructor(name: string, age: number) {
    this.name = name;
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  sayHello() {
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  }

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    this.age++;
    console.log(`Happy birthday! Now I am ${this.age} years old.`);
  }
}
```

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