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**Programming & OOP**

1.

function combineWords(word1, word2) {

  let result = "";

  let len1 = word1.length;

  let len2 = word2.length;

  let max\_length = Math.max(len1, len2);

  for (let i = 0; i < max\_length; i++) {

    result += (word1[i] || "") + (word2[i] || "");

  }

  console.log(result);

}

combineWords("Ahmed is", "Amazing");

combineWords("SCE WORD", "ERT");

combineWords("IEEE ManCSC", "Backend Committee");

2.

In OOP, which of the following is the conceptual framework that outlines the characteristics and actions of a particular entity?

b. Class

**HTTP & Network**

I use the browser to type <https://youtube.com> and hit enter. The YouTube page starts loading.

Regarding this statement

* Identify the server, the client and the end-user. Explain the difference between them.
* Mention the HTTP method used in this example and suggest an appropriate status code.

**The server** is a device that is used to accept the requests of the user and send a respond (in this example it is youtube server or you can say google)

**The client** is the software that initiate a request

In this example it is the browser

**the end-user** is the person that used the browser send a request to the server and waiting for the respond

In this example the end-user is the person who types in the browser the url <https://youtube.com>

HTTP Method is **GET**

the appropriate status here is 200

and it means ok or the request is succeeded

**Database Code**

SELECT name, phone, email

From table\_name

Where age >= 20