**Usage of Web Workers in Modern Web Applications**



Session: 2021 – 2024

**Submitted by:**

Mahnoor Ejaz       2021-CS-43

**Supervised by:**

Prof. Atif Waraich

**Department of Computer Science**

**University of Engineering and Technology**

**Lahore Pakistan**

# **Description:**

A Fibonacci sequence is a sequence of numbers where each number is the sum of the previous two, usually starting with 0 and 1. The nth Fibonacci number is counted as (n-1)th and (n-2)th iterations until the base case reaches the Fibonacci numbers where n is 0 or 1.

The Fibonacci function defined in worker.js uses this recursive algorithm to calculate the nth Fibonacci number. When the Web Worker receives a message with value n, it uses the fibonacci function to calculate the corresponding Fibonacci number and sends the result to the main thread.

This shows how web workers can be used to perform heavy computing tasks asynchronously in the background, so that the main thread remains responsive and provides a better user experience in web applications