Arab American University

# **Faculty of Information Technology and Engineering**

## **ALGORITHMS ANALYSIS AND DESIGN**

Version Control with Git and GitHub

Objectives:

we will build on the practical analysis of the factorial calculation assignment you previously completed. Understanding and utilizing version control is a fundamental skill for any software developer. We will use Git, a widely adopted version control system, and GitHub, a platform for hosting and collaborating on Git repositories.

Instructions :

1. GitHub Repository Setup

 Create a new public repository on GitHub.

 Name the repository something like "AlgorithmsCourse" or a similar relevant name.

 Initialize the repository with a README file.

2. Initialize Local Repository with Git:

 Navigate to the local folder containing your factorial calculation code.

 Initialize the local folder as a Git repository.

3. Connect Local Repository to the remote GitHub repository:

 On the GitHub repository page, you'll see instructions to add an existing repository from

the command line.

4. Upload Factorial Calculation Code:

 Use Git commands to add, commit, and push your code to the GitHub repository

OS: Linux

Repository URL :https://github.com/AmrSarawi/AlgorithmsCourse.git

Command:

1.sudo apt install git : to install git on OS.

2. git init : create initial directory.

3. git add 'Algorethm assignment.docx' : move file to unstage

4. git status : making sure that file at unstage.

5. git push <https://github.com/AmrSarawi/AlgorithmsCourse.git> master :upload the file to GitHub repository.