Algorithms Analysis and Design

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=> Assignment 2

Version Control with Git and GitHub :

1. The GitHub repository link:

https://github.com/Sama-Sammar/Algorithms-Course-

2. The commands used for each step:

//The configuration

```
HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course
$ git config --global user.name
Sama-Sammar

HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course
$ git config --global user.email
samahaitham66@gmail.com
```

//To initializes a new empty Git repository

```
HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course
$ git init
Initialized empty Git repository in C:/Users/HITECH/Desktop/Algorithms
Course/.git/
```

//To add the changes from local area to (Working Directory) to the staging area

```
HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course (master)
$ git add .
```

//To show the state of the working directory and the staging area.

```
HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Algorithms_Assignment1.pdf
        new file:   Factorial_Code.cpp
```

//To take from staging area to local repository

```
HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course (master)
$ git commit -m "first commit"
[master (root-commit) f15233b] first commit
 2 files changed, 42 insertions(+)
 create mode 100644 Algorithms_Assignment1.pdf
 create mode 100644 Factorial_Code.cpp
```

//To track and interact with repositories that are not on your local machine

```
HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course (master)
$ git remote add origin https://github.com/Sama-Sammar/Algorithms-Course-
.git
```

//To confirm the response

```
HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course (master)
$ git remote
origin
```

//Upload local repository content to a remote repository

```
HITECH@Sama-H-S MINGW64 ~/Desktop/Algorithms Course (master)
$ git push origin master

$ git config --global user.name
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 274.59 KiB | 34.32 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sama-Sammar/Algorithms-Course-.git
 * [new branch]      master -> master
```