Registration No. : MSDSF23M016

Submitted by: Sania Khalid

Assignment: 02

1. **Set up your GitHub account and set up SSH key authentication.**

2. **Create a repository named DevOps-A2.**

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Required fields are marked with an asterisk (*).

Owner *   Repository name *

🌐 saniakhalid1 ▾   /   DevOops-A2

✅ DevOops-A2 is available.

Great repository names are short and memorable. Need inspiration? How about **glowing-computing-machine** ?

Description (optional)

[   ]

⦿ 🖥 **Public**
        Anyone on the internet can see this repository. You choose who can commit.

◯ 🔒 **Private**
        You choose who can see and commit to this repository.

3. **Clone the repository to your local computer. Add a Python program that can scrap any web page from the Internet and output clean text on the console. If scrapping is new for you, learn it quickly for the task. Commit to this change. Show this screenshot in your submission.**

```
Sania@DESKTOP-ROFG1DB MINGW64 ~
$ git clone https://github.com/saniakhalid1/DevOps-A2.git
Cloning into 'DevOps-A2'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

Sania@DESKTOP-ROFG1DB MINGW64 ~
$
```

```
Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive
$ cd Desktop

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop
$ git clone https://github.com/saniakhalid1/DevOps-A2.git
Cloning into 'DevOps-A2'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop
$ cd DevOps-A2

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git init
Reinitialized existing Git repository in C:/Users/Sania/OneDrive/Desktop/DevOps-A2/.git/

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        DevOps-A2.ipynb

nothing added to commit but untracked files present (use "git add" to track)
```

```
Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git add DevOps-A2
fatal: pathspec 'DevOps-A2' did not match any files

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git add DevOps-A2.ipynb
warning: in the working copy of 'DevOps-A2.ipynb', LF will be replaced by CRLF the next time Git touches it

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git add DevOps-A2.ipynb

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git commit -m "This is initial Commit"
[main b2cba5f] This is initial Commit
 1 file changed, 705 insertions(+)
 create mode 100644 DevOps-A2.ipynb
```

```
Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```
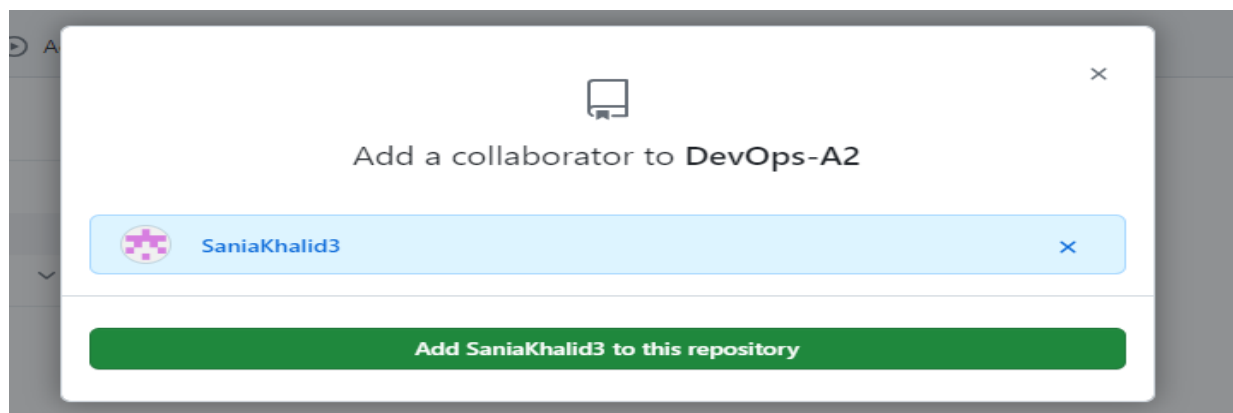
4. **Invite another user to your repository and assign him to change the code to save the output to the file.**

You now have push access to the saniakhalid1/DevOps-A2 repository.

5. **You need to update the code by having proper comments. This way, you will work on the version outputting in the console while other users work to change the output from the console to a file. Let him first commit, and then you commit. This way, once you commit, git will try to resolve the conflict. Show this screenshot in your submission**

```
Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git clone git@github.com:saniakhalid1/DevOps-A2.git
Cloning into 'DevOps-A2'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.

Sania@DESKTOP-ROFG1DB MINGW64 ~/OneDrive/Desktop/DevOps-A2 (main)
$ git checkout -b NewMain
Switched to a new branch 'NewMain'
```

```
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git add .
warning: in the working copy of 'DevOps-A2.ipynb', LF will be replaced by CRLF the next time Git touches it
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2>
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git add .
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git commit -m "Added and updated some piece of code"
[main d6a55db] Added and updated some piece of code
 1 file changed, 5 insertions(+), 16 deletions(-)
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 424 bytes | 212.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/saniakhalid1/DevOps-A2.git
   b2cba5f..d6a55db  main -> main
```

```
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git add .
warning: in the working copy of 'DevOps-A2.ipynb', LF will be replaced by CRLF the next time Git touches it
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2>
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git add .
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git commit -m "Added and updated some piece of code"
[main d6a55db] Added and updated some piece of code
 1 file changed, 5 insertions(+), 16 deletions(-)
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
```

6. **Now check out the version of the code you committed in step 3, create a new branch, and call it QA. Add a text file mentioning random QA guidelines and commit to this branch.**

```
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git checkout main
Already on 'main'
M       DevOps-A2.ipynb
Your branch is up to date with 'origin/main'.
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git checkout -b QA
Switched to a new branch 'QA'
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git add test.txt
fatal: pathspec 'test.txt' did not match any files
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git add .
warning: in the working copy of 'DevOps-A2.ipynb', LF will be replaced by CRLF the next time Git touches it
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2>
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> ls
```

```
 PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> ls


     Directory: C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        10/31/2023     8:55 AM          14313 DevOps-A2.ipynb
-a----        10/31/2023     8:48 AM             28 README.md


PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git commit -m "Added text file"
[QA 8041792] Added text file
 1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git add test.txt
fatal: pathspec 'test.txt' did not match any files
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git add .
```

7. Merge the QA branch to the master/main branch.

```
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git merge QA
Updating d6a55db..8041792
Fast-forward
 DevOps-A2.ipynb | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git commit -m "Merge QA Branch here"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

```
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2> git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 342 bytes | 114.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/saniakhalid1/DevOps-A2.git
   d6a55db..8041792  main -> main
PS C:\Users\Sania\OneDrive\Documents\GitHub\DevOps-A2>
```