SIGMA CLUB

HACKTOBER FEST

SESSION 2 - GIT-VENTURES

WHAT IS GIT

Git is a version control software for your local system

WHY DO WE NEED GIT?

- It tracks the history of changes as people and teams collaborate on projects together
- As developers make changes to the project, any earlier version of the project can be recovered at any time.

Developers can review project history to find out:

- Which changes were made?
- Who made the changes?
- When were the changes made?
- Why were changes needed?

INSTALL GIT

Download from - https://gitforwindows.org/

Download **git cheatsheet** in VSCode extensions

SETUP GIT IN YOUR SYSTEM

1. to set the username

```
git config --global user.name "john144
```

2. to set the user email

```
git config --global user.email "john144@gmail.com"
```

ACTIVITY 01

CONTRIBUTE TO AN EXISTING BRANCH ON GITHUB

DEMONSTRATION - CLONE A REPOSITORY THAT YOU FORKED RECENTLY TO LOCAL SYSTEM

1. *download a repository on GitHub to our machine*
2. Replace `owner/repo` with the owner and name of the repository to clone git clone https://github.com/owner/repo.git
3. change into the existing branch called `session1-notes`

```
git checkout session1-notes
```

4. make changes, for example, edit `notes1.md` and `notes2.md` using the text editor
5. stage the changed files

```
git add notes1.md notes2.md
```

6. take a snapshot of the staging area, Make a comment on what are the changes related to. (anything that's been added)

```
git commit -m "edited notes"
```

7. push changes to github

```
git push --set-upstream origin my-new-branch
```

EXERCISE-01

- clone your notes repo
- checkout to an existing branch (ex: session1-notes)
- add a file call todo.md. Please list the task that you want to redo.
- push the changes of branch **session1-notes**

ACTIVITY 02

CONTRIBUTE TO AN EXISTING REPOSITORY

DEMONSTRATION - CLONE A REPOSITORY THAT YOU FORKED RECENTLY TO LOCAL SYSTEM

1. *download a repository on GitHub to our machine*
2. Replace `owner/repo` with the owner and name of the repository to clone git clone https://github.com/owner/repo.git
3. change into the `repo` directory

```
cd repo
```

4. create a new branch to store any new changes. (Please rename your branch differently)

```
git branch my-new-branch
```

5. switch to that branch (line of development)

```
git checkout my-new-branch
```

6. make changes, for example, edit `notes1.md` and `notes2.md` using the text editor
7. stage the changed files

```
git add notes1.md notes2.md
```

8. Make a comment on what are the changes related to.(anything that’s been added)

```
git commit -m "added 2 notes on bikes"
```

9. push changes to github

```
git push --set-upstream origin my-new-branch
```

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EXERCISE-02

- clone any forked repo(hello-world/any other repo of your friend)
- create a new branch on local system called **readme-session2**
- add a file called participating.md
- push the changes of **branch readme-session2**

SESSION 1 - Git-ventures

THE END


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