



**HACK
TOBER
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
```



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

