GITHUB class

* GITHUB-version control system or distributed revision control system
* Do you have experience on code repository? Ans:yes I know about github
* Bit basket is also one of code repository software
* Gihub –kernal version
* Github is a source code management system
* Git is initially developed by linus torvalds for linux kernel version
* Git hub is a free distributed open source
* Github is licensed under GNU(General public license version2)

VERSION CONTROL SYSTEM

* Software that helps developers to work together
* Allows to work simultaneously
* It doesn’t allow overwriting each other’s changes
* It maintains history
* There are 2 types of version control systems

1. Centralized version control system(CVCS)
2. Distributed version control system(DVCS)

CVCS:

* CVCS uses a central server to store all the files and enables
* Drawbacks of CVCS is failure of central server
* If central server goes down for one hour no one can collaborate for one hour
* Disk of central server gets corrupted and proper backup then you will lose the entire code

DVCS:

* They can fully mirror our repositories
* If server is down then the repositories from any client can be copied back to server
* Every check out is a backup of the repository
* You can commit changes
* You can also work offline
* Network is required only to publish your requirements
* Fast and small(github is completely written in c and can perform operations locally aswell(offline))
* Free and open source
* Implicit backup(I.e; we can change ,modify the code any time the previous code will be back uped and losing the code is very rare)
* Security –Git uses a cryptographic function SHA1
* No need of any powerful hardwares