**GIT ( GLOBAL INFORMATION TRACKER)**

**ASSIGNMENT**

Q1. WHAT IS GIT?

* ANS. GIT IS A VERSION CONTROL SYSTEM USED FOR TRACKING CHANGES IN COMPUTER FILES . IT IS GENERALLY USED FOR SOURCE CODE MANAGEMENT IN SOFTWARE DEVELOPMENT , GIT IS USED TO TRACKING CHANGES IN THE SOURCE CODE. THE DISTRIBUTED VERSION CONTROL TOOL IS USED FOR SOURCE CODE MANAGEMENT , IT ALLOWS MULITIPLE DEVELPOERS TO WORK TOGETHER ON NON- LINEAR DEVELOPMENT.

Q2.WHAT DO YOU UNDERSTAND BY THE TERM ‘VERSION CONTROL SYSTEM,?

* ANS. VERSION CONROL, ALSO KNOWN AS SOURCE CONTROL, IS THE PRACTICE OF TRACKING AND MANAGING CHANGES TO SOFTWARE CODE. VERSION CONROL SYSTEMS ARE SOFTWARE TOOLS THAT HELPS SOFTWARE TEAMS MANAGE CHANGES TO SOURCE CODE OVER TIME. DEVELOPERS CAN CHECK OUT A FILE FROM THE SERVER, MAKE CHANGES, AND CHECK THE FILE BACK IN.

Q3. WHAT IS GITHUB ?

* ANS. GITHUB, INC IS AN AI- POWERED DEVELOPER PLATFORM THAT ALLOWS DEVELOPERS TO CREATE, STORE, AND MANAGE THEIR CODE . IT USES GIT SOFTWARE, PROVIDING THE DISTRIBUTED VERSION CONTROL OF GIT PLUS ACCESS CONTROL, BUG TRACKING , SOFTWARE FEATURE REQUESTS, TASK MANAGEMENT, CONTINUOS INTEGRATION , AND WIKIS FOR EVERY PROJECT.

Q4. WHAT IS GIT REPOSITORY?

* ANS. A GIT REPOSITORY IS THE . git/ FOLDER INSIDE A PROJECT , THIS REPOSITORY TRACKS ALL CHANGES MADE TO FILES IN YOUR PROJECTS , BUILDING A HISTORY OVER TIME. MEANING, IF YOU DELETE THE .GIT FOLDER, THEN YOU DELETE YOUR PROJECT HISTORY.

Q5. WHAT BENEFITS COME WITH USING GIT?

* SOME FOLLOWING BENEFITS :
* DISTRIBUTED DEVELPOMENTS
* PULL REQUEST. MANY SOURCE CODE MANAGEMENT TOOLS SUCH AS BITBUCKET ENHANCE CORE GIT FUNCTIONALITY WITH PULL REQUEST
* COMMUNITY , IN MANY CIRCLE, GIT HAS COME TO BE THE EXPECTED VERSION CONTROL SYSTEM FOR NEW PROJECTS
* FASTER RELEASE CYCLE.