**GIT AND GITHUB ASSIGNMENT -1**

**QUES-1) WHAT IS GIT?**

ANS) GIT IS AN VERSION CONTROL SYSTEM, IT IS USED TO TRACK CODE CHANGES, CODING COLLABORATIONS, IT IS AN DISTRIBUTED VERSION CONTROL SYSYTEM

IT IS DIVIDED INTO TWO TYPES :-

1. GIT SERVER- IT IS THE LARGEST HOST OF SOURCE CODE IN THE WORLD

FOR EG- GITHUB, GITLAB, BITBUCKET, GITBIT.

1. GIT CLIENT – IT IS AN OPEN SOURCE SOFTWARE, IT IS IN THE FORM OF .EXE FILE.

**QUES-2) WHAT DO YOU UNDERSTAND BY THE TERM VERSION CONTROL SYSTEM?**

ANS) THE SYSTEM WHICH IS USED TO TRACK AND MAINTAIN THE HISTORY OF APPLICATION

IT IS DIVIDED INTO TWO TYPES:-

1. CENTRALISED VERSION CONTROL SYSTEM.
2. DISTRIBUTED VERSION CONTROL SYSTEM.

**QUES-3) WHAT IS GITHUB?**

ANS) THE REMOTE LOCATORY WHICH IS USED TO STORE THE CODE.

**QUES-4) MENTION SOME POPULAR GIT HOSTING SERVICES?**

ANS) GITHUB, GITLAB, BITBUCKET, GITBIT.

**QUES-5) WHAT ARE DIFFERENT TYPES OF VERSION CONTROL SYSTEM?**

ANS) IT IS DIVIDED INTO TWO TYPES :-

1. **CENTRALISED VERSION CONTROL SYSTEM-** THE SYSTEM IN WHICH WE HAVE THE CENTRALISED SYSTEM(COMPANY SYSTEM) WHICH IS USED TO STORE THE CODE.
2. **DISTRIBUTED VERSION CONTROL SYSTEM**- THE SYSTEM IN WHICH THE REMOTE REPOSITORY IS USED TO STORE THE CODE.

**QUES-6) WHAT BENEFITS COME FROM USING GIT?**

ANS)

1. EASILY TRACK THE CODE HISTORY.
2. TRACK WHO MADE CHANGES IN THE CODE.
3. CODING COLLABORATION.

**QUES-7) WHAT IS A GIT REPOSITORY?**

ANS) THE REMOTE REPOSITORY WHICH IS USED TO STORE THE CODE, AND MAKE TRACK OF THE CHANGES DONE IN IT, IT IS AN DISTRIBUTED VERSION CONTROL SYSTEM

**QUES-8) HOW CAN YOU INITIALIZE A REPOSITORY IN GIT?**

ANS) GIT INIT

**MULTIPLE CHOICE QUESTION**

* A VERSION CONTROL SYSTEM HELPS TO TRACK ALL THE CONTRIBUTIONS OF THE DEVELOPERS WORKING AS A TEAM ON THE PROJECT
* THE FILES THAT CAN BE COMMITTED ARE ALWAYS PRESENT IN THE GIT STAGING AREA
* CVCS – IT IS A VICTIM TO A SINGLE POINT FAILURE, RELIES ON CENTRAL SERVER.
* A REPOSITORY IS A FILE STRUCTURE WHERE GIT STORES ALL THE PROJECT BASED FILES