Workshop 2 – Git Version Control

This workshop is worth 2.5%

You must demonstrate your completed workshop to your tutor in your lab to receive the marks.

In this week's lab you will be setting up git, creating branches and solving a merge conflict.

Task 1 – Setting up GitHub.

If you have not created an account please do so, GitHub is used within the industry, so make your email and password something that you will remember.

Now in GitHub, create a new repository, and name it "myFirstGit". Please tick the "create the README file" box to set up your initial README.

Task 2 – Cloning and pushing changes.
- Clone the new repository on to your local machine (**git clone ...**)
- Make your myFirstGit as a node project (in directory myFirstGit: **npm init**)
- Create a new file that prints out "hello world" using the console.log() function.
- Check your node project into repository myFirstGit (**git add** and **git commit)**
- Update your git repository at github with your local myFirstGit (**git push origin master**).

Task 3 – Writing the ReadMe

Got back the github website and use their markdown editor to create a read me that has:
- Project title
- A project description
- install instructions
- run instructions
- write a table of weeks for the course, and the course content.

Before task 4 make sure to do a pull the change made to the readme, otherwise your local project will be behind the master.

Task 4 – Branching

Create a new branch called "adding function". On your local machine check out this branch and add a function that adds two numbers. This function should print out the sum of 5+10 after the "Hello World".

Push the changes to the branch with the commit message "added adding function".

Task 5 – Merge Conflicts

Find a partner and have them clone your repository and check out the master branch. Your partner should change the "Hello World" to "I caused a merge conflict."

Afterwards your partner should check their changes back into the master branch with the commit message "partner changes".

Now attempt to merge the local branch "adding function" into the master branch at GitHub. This will involve several steps and will create a merge conflict that you will need to solve.