**Using Git in VS Code**

**Task to do**

1. Download VS Code on my home laptop
2. Create a new test repository on Github using my personal laptop – initialise a new repository by pushing a folder that includes Python files
3. Practice using the controls below to carry out manipulations on the files within VS Code

**Key Actions – For Reference**

To create a new repository

* Open a folder in VS Code
* Go to Source Control
* Click Initialise Repository

To rename a branch

* Open Command Palette (in View menu or Ctrl+Shft+P)
* Type in rename – Select Git Rename from dropdown list
* Type in new branch name

Staging files in VS Code source control

* Files will initially be labelled U (untracked)
* Adding files
  + Click + on this file – This changes it’s status to A (git added)
* Committing files
  + Write a message into the text box above to describe the commit
  + Click on the tick above it, to carry out the commit
* You can stage changes/discard changes (git reset) to all of the files in your folder by clicking on the + or arrow icons at the folder level

Creating a new branch

* Open Command Palette (in View menu or Ctrl+Shft+P)
* Type in create – Select git create branch from dropdown list
* Type in new branch name
* New branch name will show up in the bottom left corner

Visualising changes

* New changes will be colour coded within VS Code
  + New lines – shown in green
  + Amended lines – shown in blue
  + Deleted line – shown by a red arrow

Merging Branches

* Click on 3 dots next to Source Control
* Select Branch / Merge Branch
* Select branch to merge from

Publish to Github / Gitlab

* Select Publish
* This will take you to the designated destination in Gitlab

Cloning an existing repo from Github/Gitlab

* Open the repo and click on Code
* Copy the HTTPS url
* Go into VS Code and open the Command Palette
* Type in clone and select Git Clone
* Select the option to clone from URL and paste in the URL
* Select the location that you want it to be cloned to

VS Code Tips

* Ctrl+N – Create new file
* F5 or Play button - Run your code
* Intellisense – This is what gives you the additional error handling and feedback