**19F-1011**

**Task 3**

**DevOps**

**Exploring GitHub Actions:**

I started to explore GitHub Actions and I explored that GitHub Actions is a fundamental tool in DevOps, automating tasks such as Continuous Integration (CI) for code validation, Continuous Deployment (CD) for efficient releases, and Infrastructure as Code (IaC) for automating infrastructure provisioning. This integration streamlines development workflows, enhances code quality, and accelerates the deployment process, aligning perfectly with the principles of DevOps.

**Findings:**

I started GitHub and committed a code file to the GitHub repository. Then I moved in the actions tab and explored that there are many tools showing to be configured. On the top it is showing me the tools it suggests me to configure according to the nature of the file I committed on GitHub repository. I configured a tool and it opened me a yml file which I explored and committed to GitHub. I refreshed the page and again moved to actions tab and explored that it was showing me that file and when I clicked that file it gave me an option to build that specific file. When I clicked on build, it gave me options to set up job, run, some other options and complete job. In this way, I created the pipeline and explored GitHub Actions.