Module 1: Introduction to Azure DevOps

Assignment Solution

Problem Statement:

Hooli Inc. is working on a product for which there is a distributed development team across geographies. Coordinating between the development team is proving to be difficult but the code needs to be synchronized. The company has chosen Git as the source repository for the product development. To check the functionality some sample math helper functions have been developed. Check the Git integration with the help of the available code.

Functions:

- Addition
- Multiplication
- Calculation of sin/ cos
- Distance between 2 points

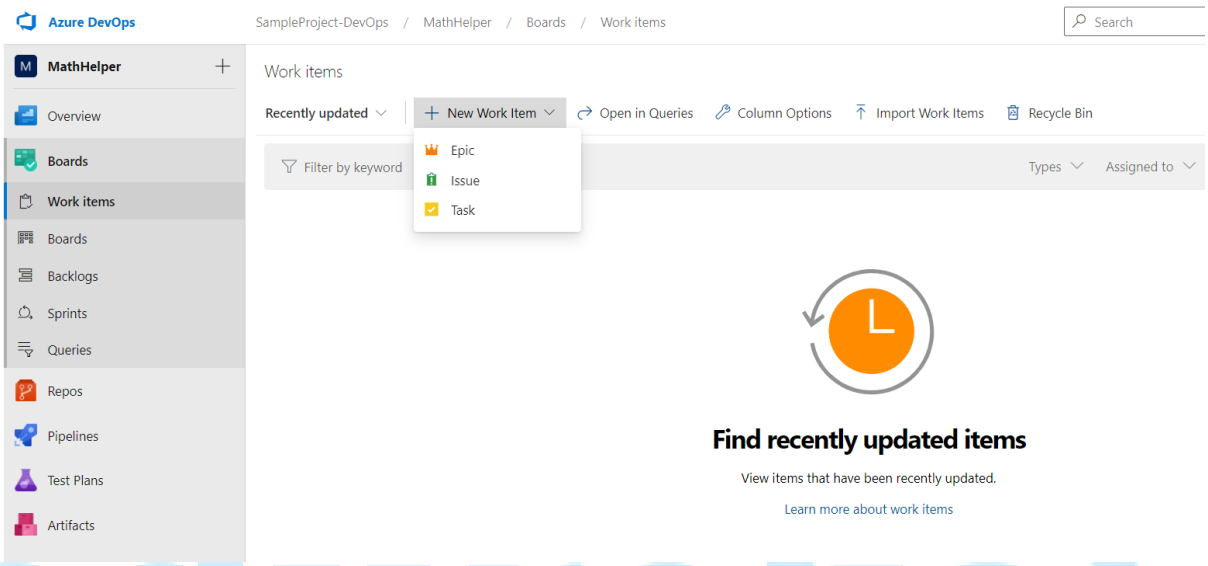
Create these sample functions

Steps to Perform:

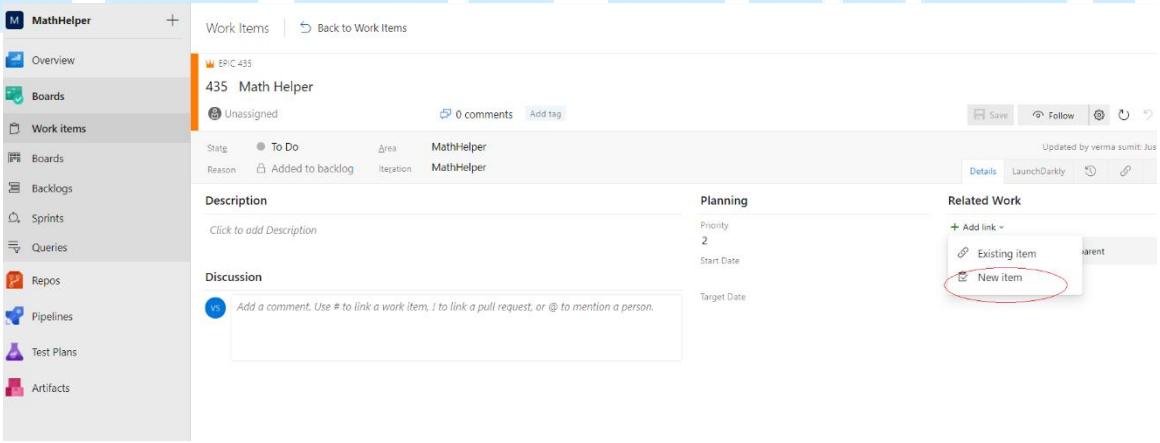
- Create user stories and task for the functionality and assign the sprints using Azure Board
- Assign the stories and tasks to the developer
- Change the status as per task execution
- Create a Git project holding the project
- Upload the project to Git
- Add new calculation functions to the project and check-in the changes to Git
- Compare the historical changes to see the changes introduced
- Creating a new local repository from the master repository for any new local repository creation

Solution:

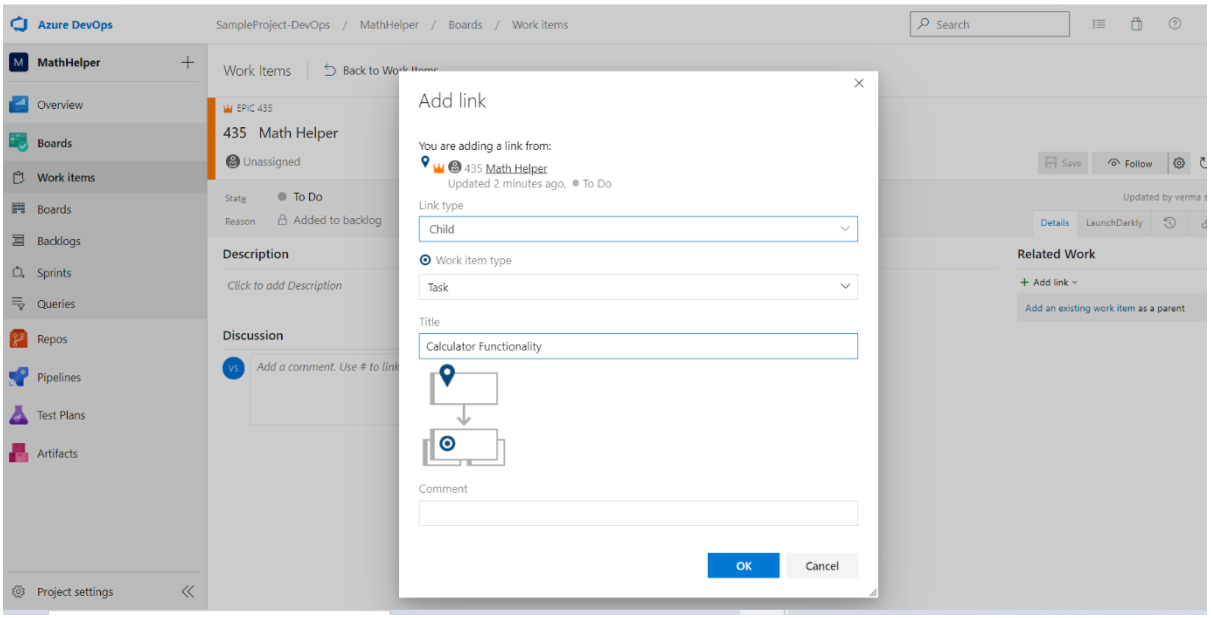
- Open dev.azure.com
- Create a project named “MathHelper”. It can be Public or private
- Go to Azure Board and click on “New Work Item” and select Epic and create a Epic “Math Helper”



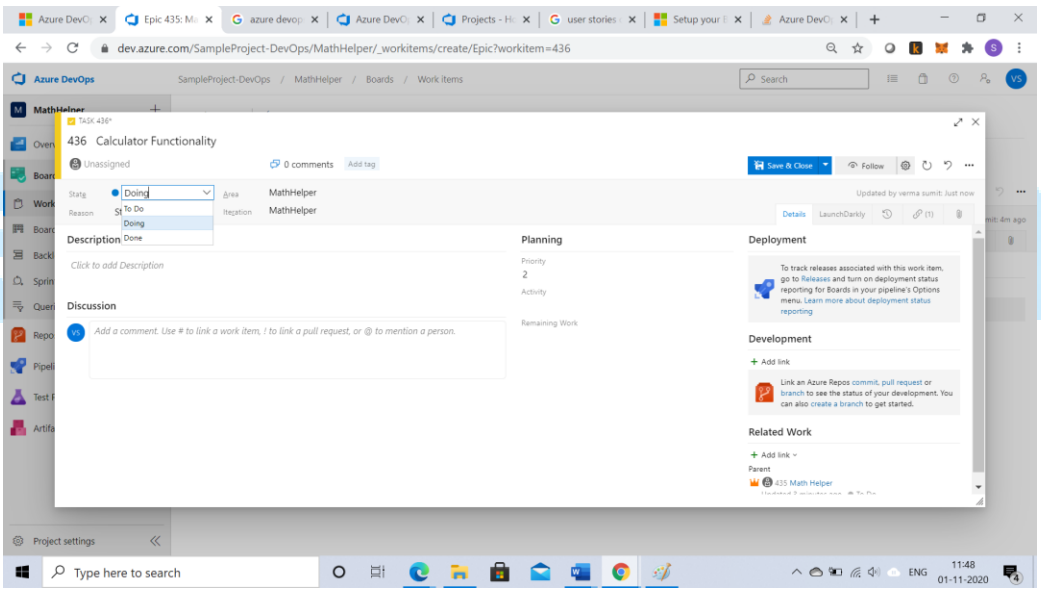
- After creation of Epic, create a Related item as shown



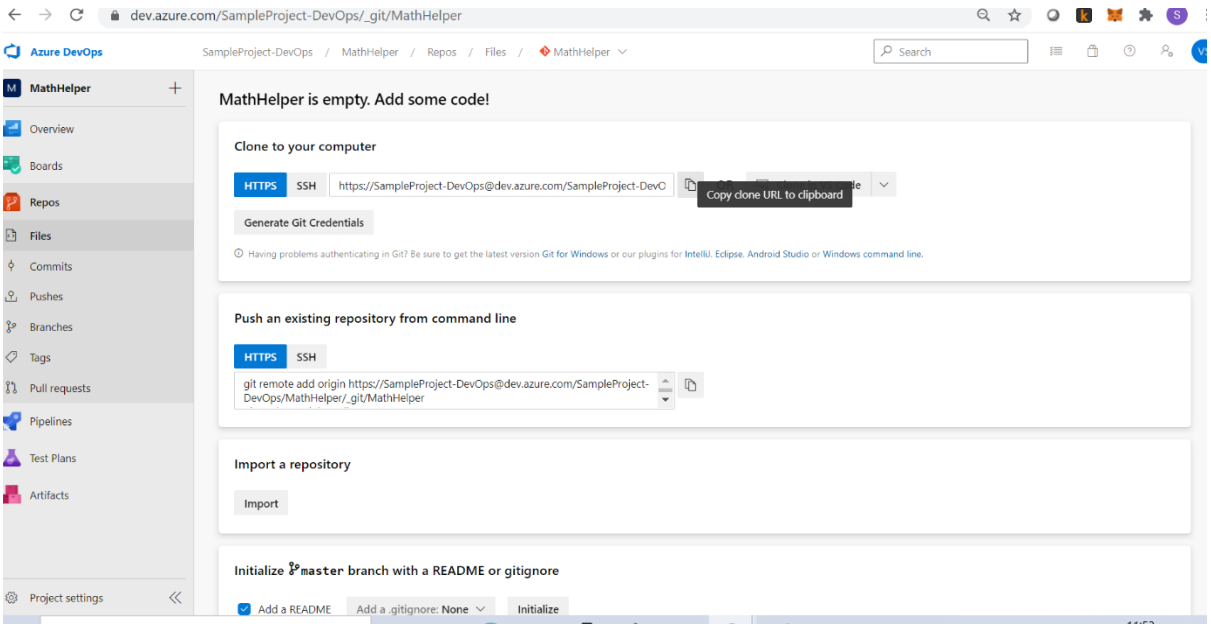
- Add the new work item as shown below.



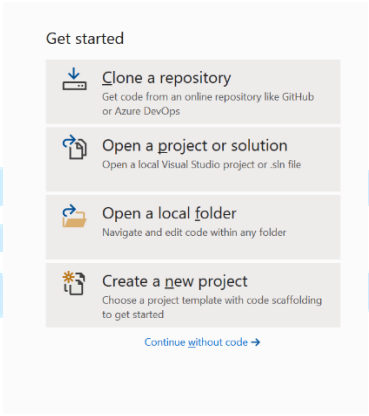
- Open the above newly create task and change the status to Doing



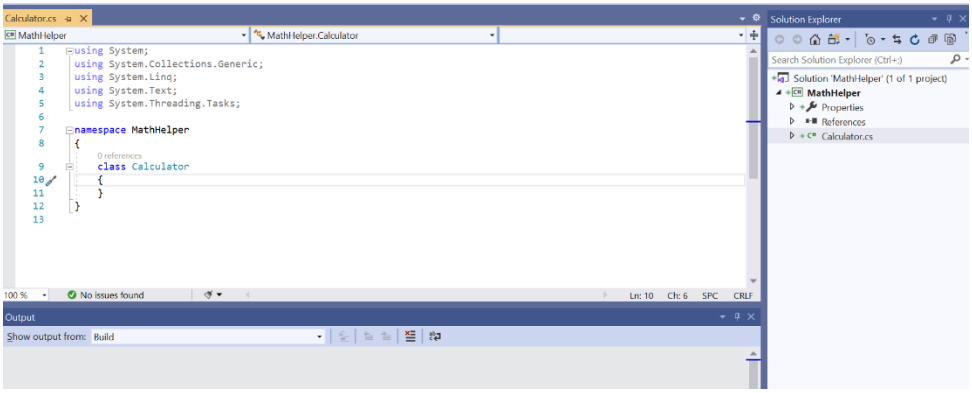
- Also change the Math Helper Epic to Doing status
- Now create some calculator code and check in to this DevOps project
- Go to Repos File and copy the link



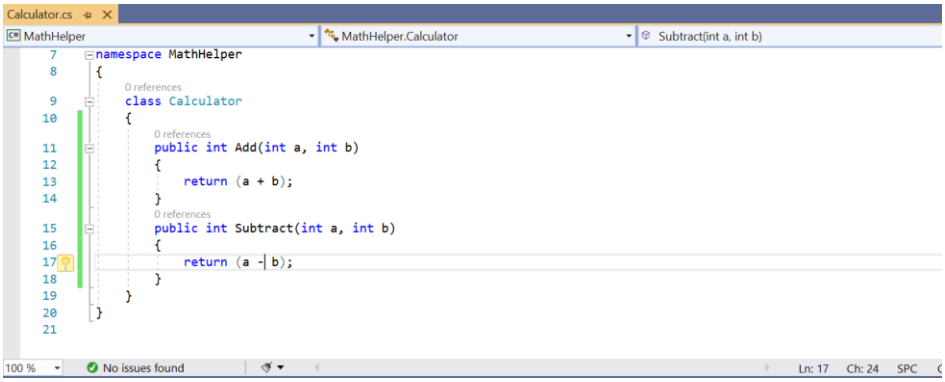
- Open the Visual studio 2017 or above
- Create a new project and use the clone from repository using the link that we copied



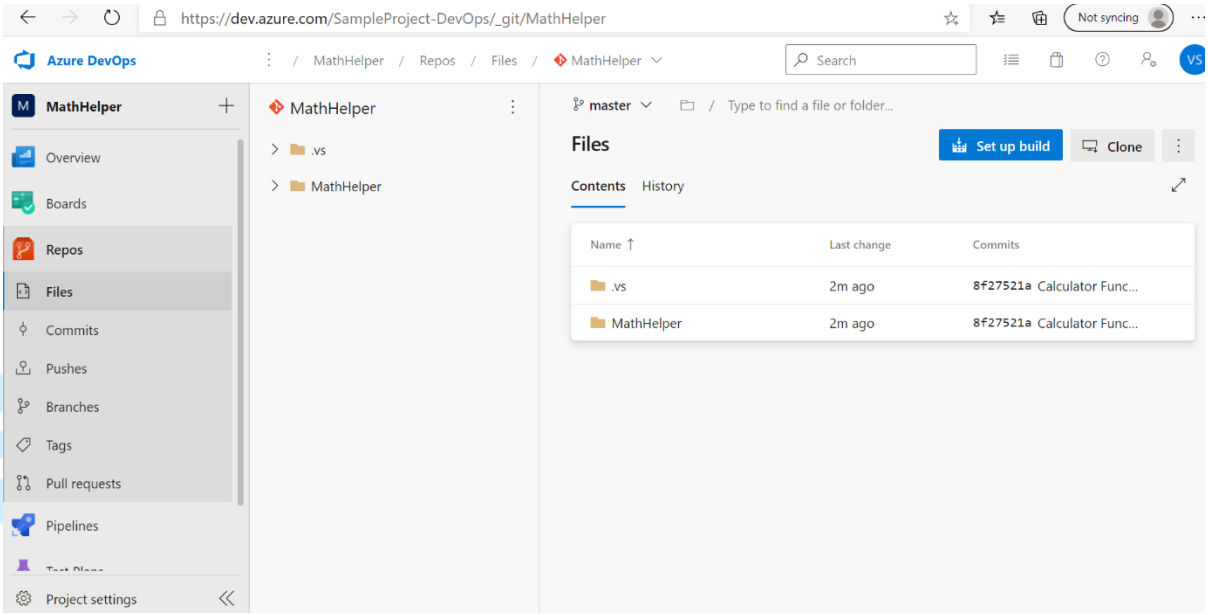
- Create a class library (.Net Framework). Name It as MathHelper
- Delete the default file Class1.cs created
- Add a new class file calculator.cs to this project as shown below



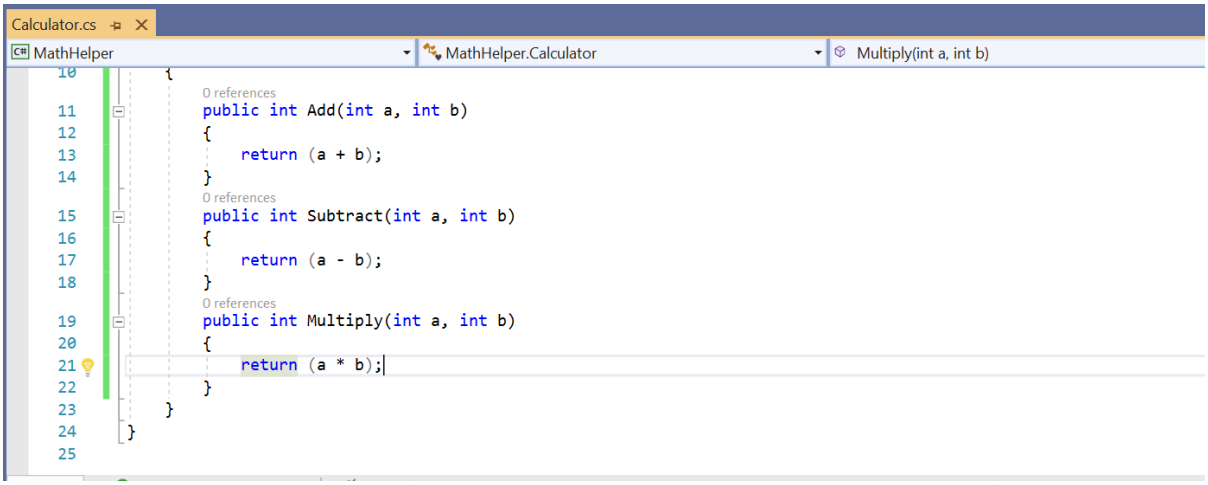
- Add some methods like Add, Subtract as shown below



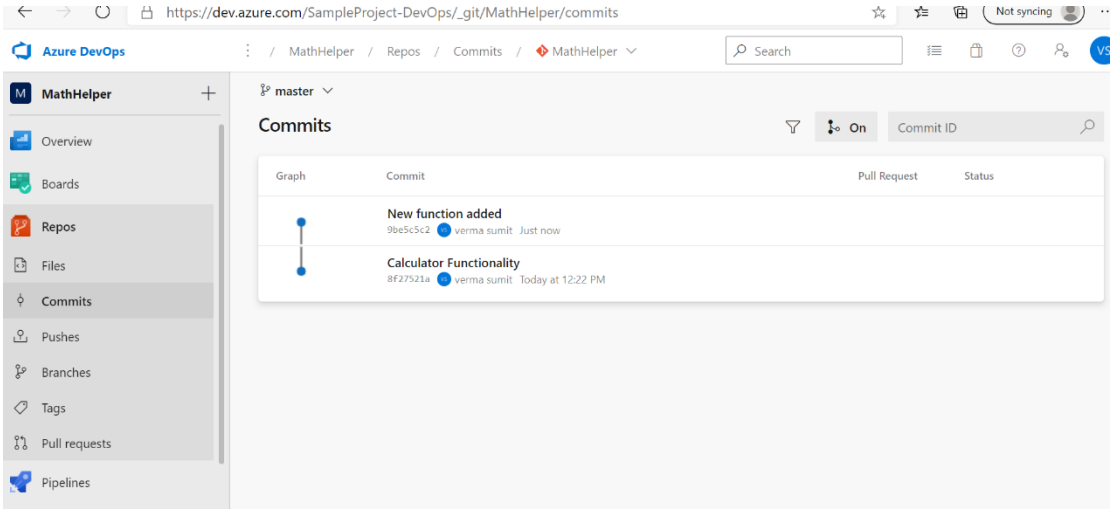
- Build the solution and ensure that it is compiled successfully and then check in the code using Commit and push
- Go back to Azure DevOps project and verify that checked-in solution is present



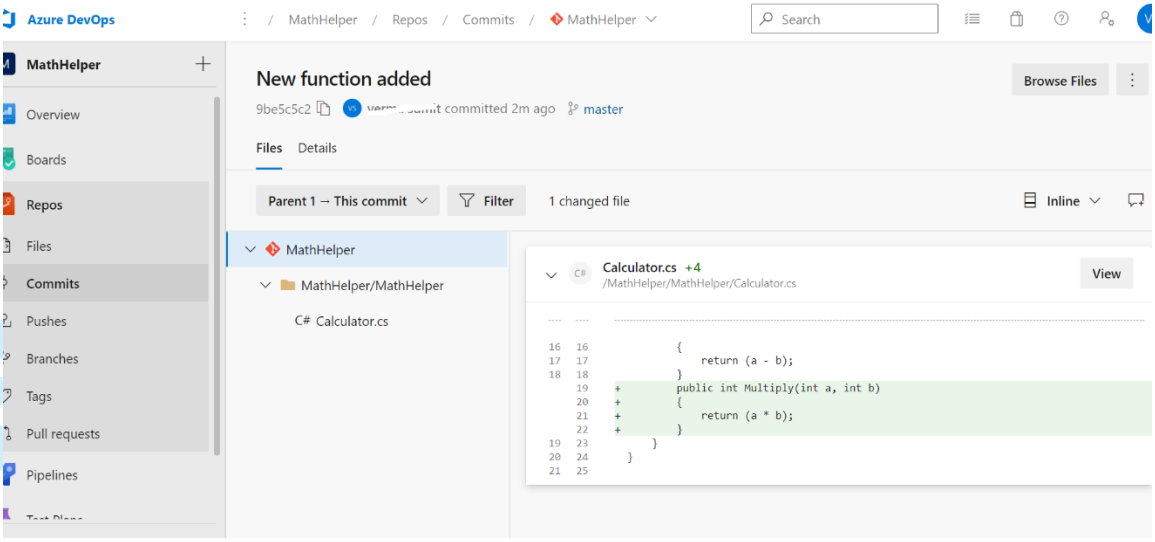
- Now make some changes in Visual studio code and check-in. Add another ‘multiply’ functionality



- Check in the code and do a simple version compare. The check in comment for this project is “New Function Added”
- Go to Repos→ Commit and it will show all the code commits



- Click on New Function added, and it will show the code changes from the previous project



This concludes this project