

- Steps to create a new LABstarter project in Code Composer

Start **Code Composer**,

Select the workspace,

Select **Project->Import CCS Projects**,

Click **Browse**,

Go through examples and select LABstarter folder,

Click **Finish**,

Rename the project and the main.c,

Right click on project name->select **properties**,

Select **General->Connection->"Texas Instruments XDS100v2 USB Debug Probe"** , apply.

- Steps to pull up Tera Term and connect to the LaunchPads serial port.

Open **Tera Term**

Select **Serial** and the **COM port** with XDS100,

Select **Setup->Serial port**, set **Speed** to 115200

- Steps to check out your repository from github.com

Download the repository to local computer

```
git clone https://github.com/FredWang1999/ME461_repo.git
```

```
git remote add coursecode https://github.com/COECSL/ME461Fall22.git
```

```
git pull
```

//the repository folder is created and coursecode is added, and the content is downloaded to the folder

Back up local repository to GitHub

```
git commit -a -m "put commit message"
```

```
git push
```

// the changes are committed and uploaded to the github. Put -a in commit if there's new folders and/or files created.

Update the coursecode

```
git fetch coursecode
```

```
git merge coursecode/main -m "comment "
```

```
//get the latest coursecode and merge with my repo.
```

- Explain what `__interrupt void RXAINT_recv_ready(void)` is doing for us in the default project.

This function will be called when any data is sent via serial port. In the default project, once there's data sent through serial port, the function saves the received data (which is stored in `SciaRegs.SCIRXBUF.all`) to `RXAdat`. Then, if the data is `0xC000`, some error may have occurred, and the serial port is restarted. Otherwise, the last 8 bits of `RXAdat` is preserved and `numRXA`, which indicates the total number of characters received, is increased by 1. Lastly the interrupt was acknowledged(?)