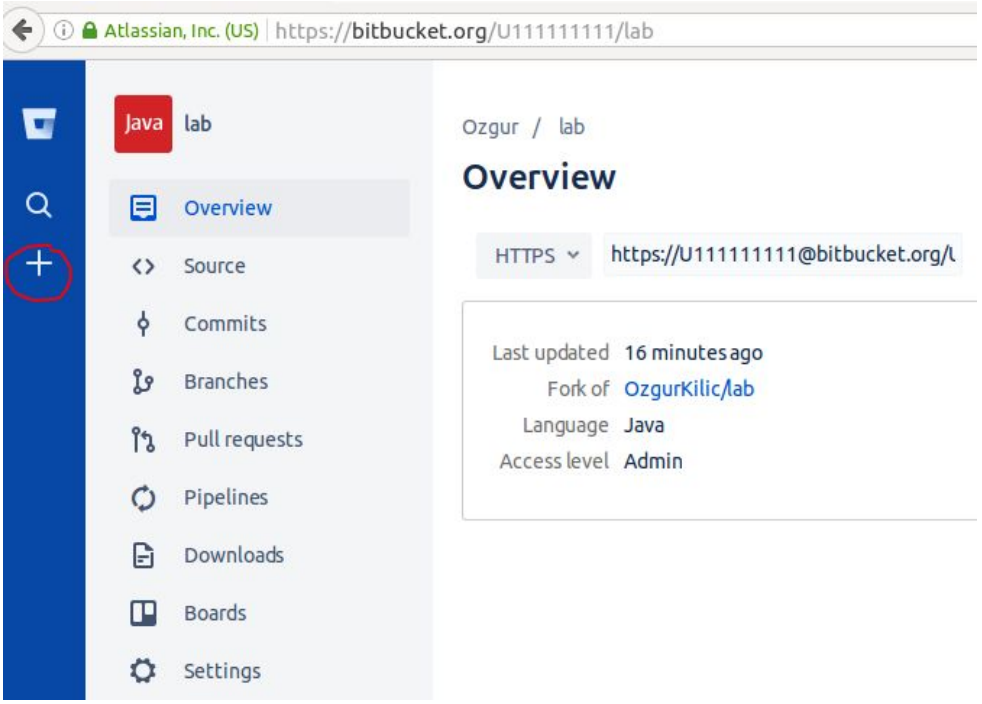
Warning: Use *cihat_cetinkaya* instead of *OzgurKilic*

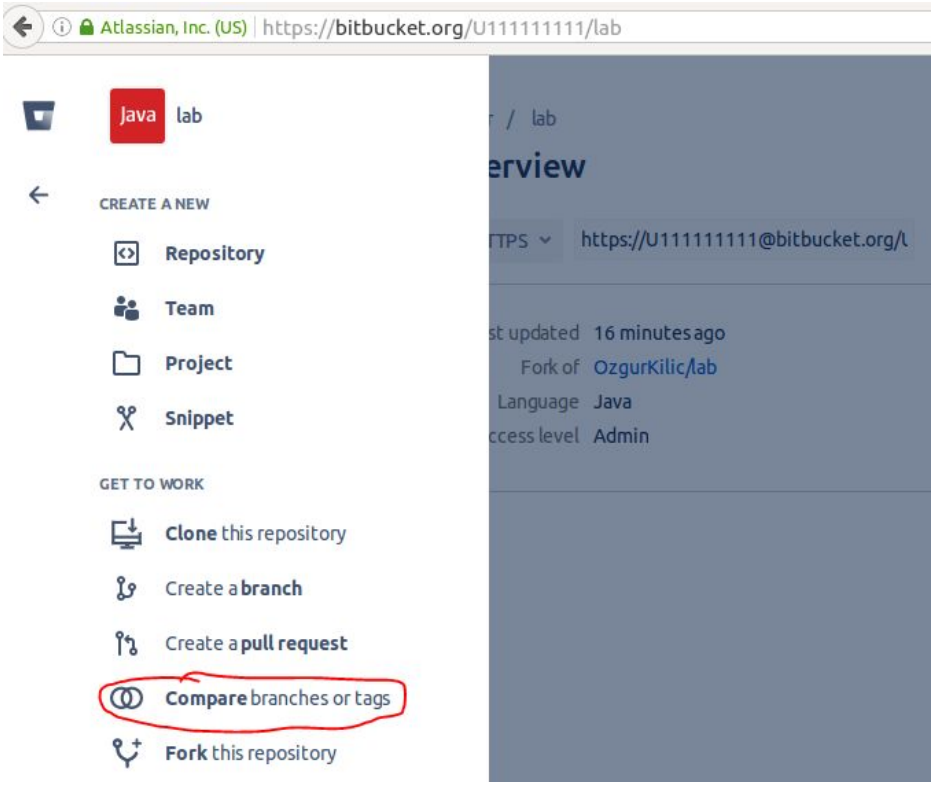
Lab 2: if Statement

Setup

Open your lab repository using bitbucket and click the "+" button.

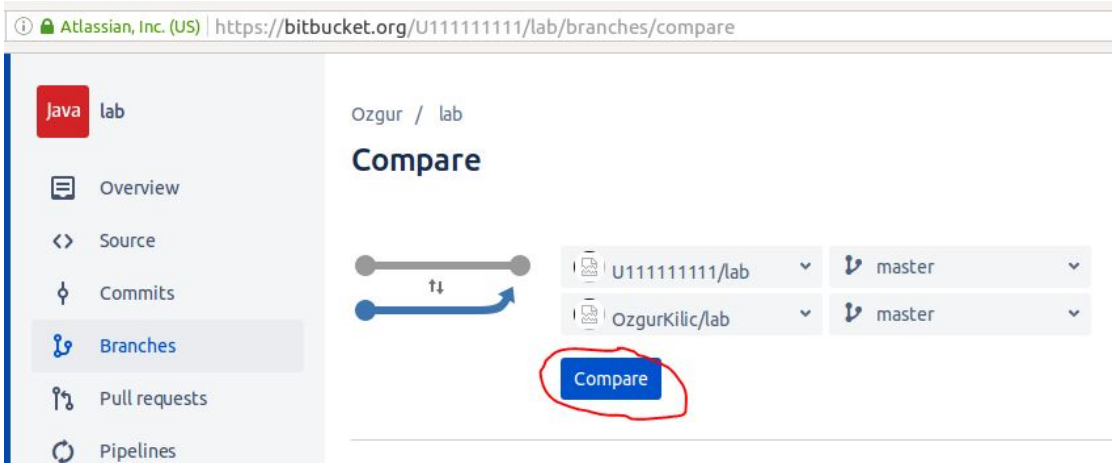


Then click the "Compare" link as shown below.

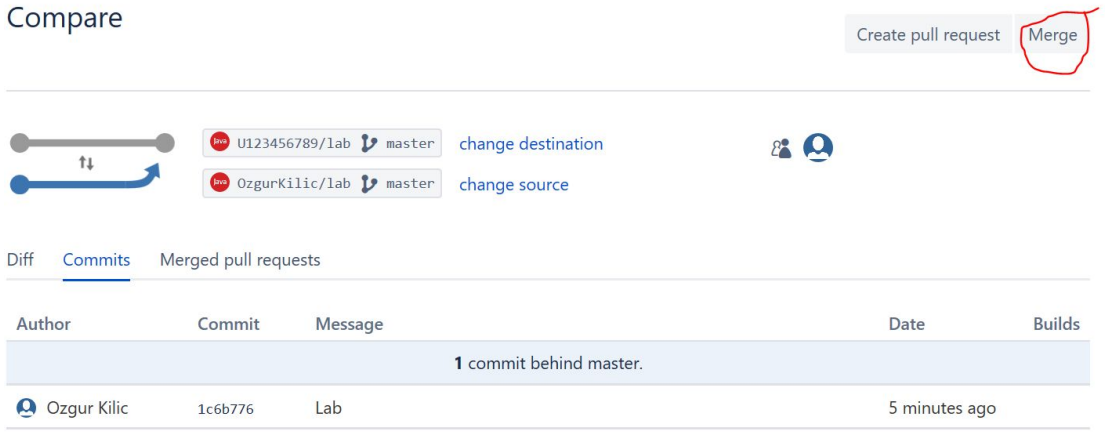


Click the arrows icon to swap the source and destination as shown below.

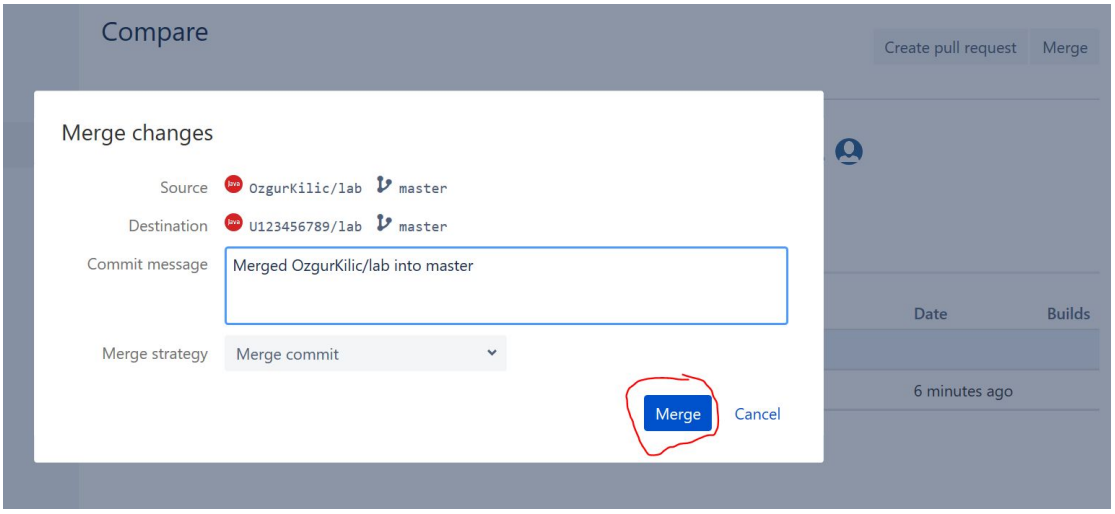
Then Click the “Compare” button.



Click the “Merge” button on the right hand side as shown below. If you don’t see the Merge button, go to step 8 and make sure you have lab2 folder in your repository source.

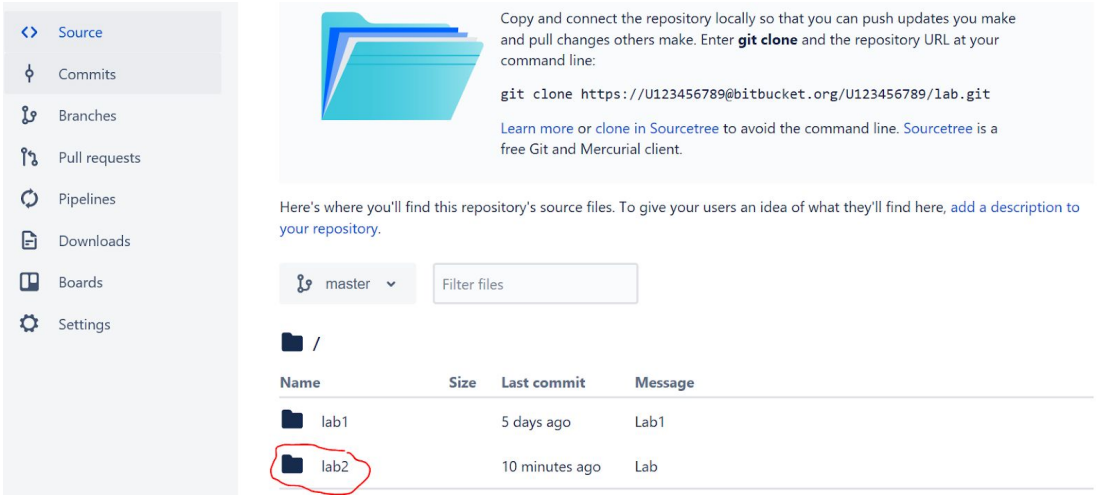


In the next window you should see Source as OzgurKilic/lab and Destionation as UYourId/lab as shown below. Then click the “Merge” button in the dialog box.



Click the "Approve" button as shown below.

Click the "Source" button of your repository, you should see two new folders "lab2" and "week1".



In command line, change directory to lab directory which was created after cloning your repository. If you haven't cloned your repository, you should clone it as described in previous lab.

Clone lab repository to your machine

Create a directory named workspace in your home folder

In workspace folder enter the following command, but replace username with your actual

user or replace the link with your repository link.

```
git clone https://username@bitbucket.org/username/lab.git
```

If you have already a local repository, execute the following command in the lab directory.
git pull
Change directory to lab2

Exercise 1 : CompareNumbers

Inside the lab2 open the file CompareNumbers.java
Open the file in the text Editor.
Read the code and try to find out what will be printed if you execute the code.
Compile and execute the CompareNumbers and check your answer.
Assign 2 to variable value2 in its declaration (int value2 = 2;) and try to find out what will be printed if you execute the code.
Save, compile and execute the CompareNumbers and check your answer.
Now assign 2 to variable value1 in its declaration (int value1 = 2;) and try to find out what will be printed if you execute the code.
Save, compile and execute the CompareNumbers and check your answer.

Exercise 2 : FindMaximum

Inside the lab2 open the file FindMaximum.java
Open the file in the text Editor.
Read the code and try to find out what will be printed if you execute the code.
Compile and execute the FindMaximum and check your answer.
Assign false to boolean variable someCondition (**boolean someCondition = false;**)
Try to find out what will be printed.
Save, compile and execute the FindMaximum and check your answer.
Assign the expression value1 > value2 to boolean variable someCondition in its declaration (**boolean someCondition = value1 > value2;**) and try to find out what will be printed if you execute the code.
Save, compile and execute the FindMaximum and check your answer.

Exercise 3 : Passing Command Line Arguments

Assign the following expressions to variables value1 and value2 as shown below:
    int value1= Integer.parseInt(args[0]);
    int value2 = Integer.parseInt(args[1]);
Save and compile FindMaximum
Execute FindMaximum as shown below several times;
    java FindMaximum 3 5
    java FindMaximum 3 -5
    java FindMaximum 5 5

Exercise 4 : Find the smallest amongst 3 numbers

Create a file named FindMin.java
Implement the main method to find the smallest number among the given 3 arguments
Save, compile your code and then test it with the following commands
    java FindMin 3 5 2
    java FindMin 5 8 6
    java FindMin 9 7 7

Exercise 5 : Find the Letter Grade

Create a file named FindGrade.java
Implement the main method to find and print the grade for a given score based on the following table

Condition	Grade
100>=score>=90	**A**
90>score>=80	**B**
80>score>=70	**C**
70>score>=60	**D**
60>score>=0	**F**

Save, compile your code and then test it with the following commands

java FindGrade 70

Expected output> Your grade is D

java FindGrade 90

Expected output> Your grade is A

java FindGrade 55

Expected output> Your grade is F

java FindGrade 105

Expected output> It is not a valid score!

java FindGrade -5

Expected output> It is not a valid score!

Submitting code to repository

Inside lab2 folder execute the following commands:

git add *.java

git commit -m "lab2"

git push -u origin master

NOTE: Your lab will **not be graded** if

Your account name does not have the format described in lab1.pdf

Your repository name is not lab

Your files have compilation errors

You haven't complete the steps described in exercises

Your added/modified files are not submitted to Bitbucket.

You have to add commit and push files as described in lab1.pdf