

# COMPILER DESIGN

## PROJECT 2

### Expressions with variables

## 1 Extending the language for variables

To add variables to our programs that comprise a list of expressions, we prefix the expression list with a declaration list:

```
[x, y, _quux13]
(= x 5)
(= y 13)
(= _quux13 (- y x))
```

Notice both the allowable form of the variable names as well as the addition of an assignment operator.

## 2 Getting started

Our source code will now be on *GitLab*, into which you can login with your college credentials. Be sure, too, to set up *ssh keys*. (If you set them up in a previous semester, they should still work; if you haven't see this [ssh key setup help page](#).)

You can use your browser to see the Project-2 repository, and to grab it so that you can work with it, clone it like this...

```
$ git clone git@gitlab.com:amherst-college/academics/cosc-371-24f/project-2.git
```

This repository contains a few directories. The 'README.md' file at the top-level of the repository explains what is in each directory, and how each should be used.

## 3 Your assignment

**Complete the compiler!** During class, we will form the three groups, and then we will discuss what each group will need from the other(s).

## 4 How to submit your work

Since this is a large group project, submitting the group's work will simply entail a *commit/push* of your work in the repository.

**This assignment is due on Thursday, Oct-03, 11:59 pm.**