

# Introduction to Computer Science

North Liberty Youth Council

# Welcome to our program!

The STEMPact: Youth to Youth high school mentorship program has been created by the North Liberty Youth Council. The purpose of this program is to introduce middle and upper-elementary school students to areas of STEM.

Topics: Computer Science, Chemistry, Mathematics, Physics, and Biology in a series of five lectures held over the span of January 2025 through May 2025.



# Lecture Preview

Today we will be talking about the basics of Python coding. The topics included in today's lecture are print statements, escape characters, math in print statements, commenting, variables, and conditionals. Python is usually the most approachable text-based coding language for beginners. It is often used in research settings and software development.



# Software

We will use a website called [Replit](https://replit.com) to do the coding. I will go over some examples and you can type on your Replit project if you would like. You can also use it for the practice problems which we will do at the end of the session.

The following are steps for creating a Replit account and using Replit:

1. Please go to [replit.com](https://replit.com) and click the button "Log In"
2. Click "Continue with Google"
3. Click your email
4. If prompted, click "Continue"
5. Once you are at your home screen, click "Create Repl." This will bring you to a new project.
6. You will write your code in `main.py` and the code will run when you click the green "Run" button. The results of the code will appear in the console.