

# Assignment 6: Reverse Engineering with GDB

CSCI 297E: Ethical Hacking

Due Date: 2024-05-21

## Objective

In this assignment, you will reverse engineer a binary executable using GDB to discover a hidden password. The goal is to practice debugging and reverse engineering techniques.

## Instructions

### Objdump

Disassemble the binary to get the assembly code.

```
objdump -d -M intel assignment6 > assignment6.asm
```

### GDB

1. Start GDB and load the binary:

```
gdb ./assignment6
```

2. Set a breakpoint at the `main` function:

```
break main
```

3. Run the program:

```
run
```

4. Disassemble the current function:

```
disas
```

5. Use GDB commands like `disas`, `info registers`, `x`, and `step` to analyze the binary and understand its behavior.

## Submission

Submit a report detailing the steps you took to reverse engineer the binary and the discovered password.

## Extra Credit

Recreate the binary in the language of your choice.