

# CSE 310 Online C2: Goto

Time: 30 minutes

June 2025

## 1 Objective

In this task, you will extend your offline to handle goto statements. Goto statements consist of two parts.

- LABEL:
- goto LABEL;

## 2 Requirements

- Extend your code to handle goto statements
- We need semantic checking. Throw an error if the label used in the goto statements is never declared before.

You may need to add symbol(s) in the lexer for this assignment.

## Sample Input

```
int var(int a, int b){
    return a+b;
}

int main(){
    HELLO:
    float d;
    d=var(1,2*3)+3.5*2;

    goto HELLO;
```

```
        return 0;
    }
```

## Expected Log Output

```
.
.
Line No. 12: The new rule you wrote that matched
goto HELLO;
.
.
```

## Sample Input

```
int var(int a, int b){
    return a+b;
}

int main(){

    HELL:
    float d;
    d=var(1,2*3)+3.5*2;

    goto HELLO;

    return 0;
}
```

## Expected Error Output

```
Line No. 12: No label declared named hello.
```

### **3 Marks Distribution**

- Parsing without error - 7
- Detecting errors - 3

### **4 Submission Instructions**

- Submit only your 21XXXXX.g4 file.