CSE 310 Online C1: Borrowing from Kotlin

Time: 30 minutes

June 2025

1 Objective

In this task, you will extend your offline to handle switch case statement of Kotlin language. It looks like this:

```
when (x) {
    1 -> println("One")
    2 -> println("Two")
    else -> println("Else")
}
```

2 Requirements

- Extend your code to handle when statement of Kotlin.
- We need semantic checking. Throw an error if there is two cases for the same value under when statement. (Check example)

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(){

    int i;
    float d;
```

```
    d=var(1,2*3)+3.5*2;

    when (i) {
        1 -> println("One")
        2 -> println("Two")
        else -> println("Else")
    }


        return 0;
}
```

Expected Log Output

The log file will contain the new rules with content matched by that rule, similar to your assignment.

Sample Input

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


int main(){

    int i;
    float d;
    d=var(1,2*3)+3.5*2;

    when (i) {
        1 -> println("One")
        2 -> println("Two")
        1 -> println("one")
        else -> println("Else")
    }


        return 0;
}
```

Expected Error Output

```
Line No. 15: Two cases for the same value.
```

3 Marks Distribution

- Parsing without error - 7
- Detecting errors - 3

4 Submission Instructions

- Zip and submit your parser and lexer files.