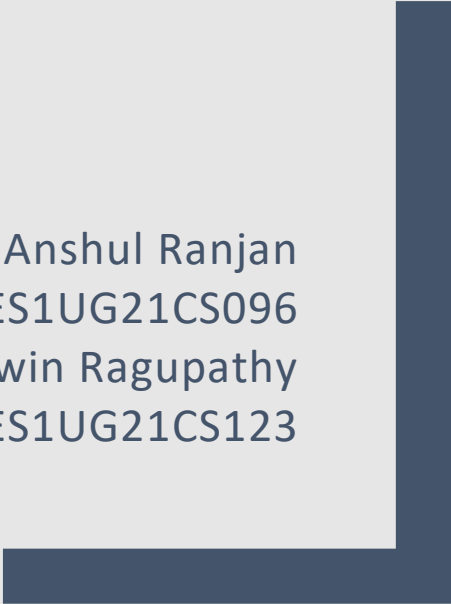


Automata Formal Languages and Logic  
Syntax Validator Using Lex and Yacc

# GOLANG

Anshul Ranjan  
PES1UG21CS096  
Ashwin Ragupathy  
PES1UG21CS123



# 1) VARIABLE DECLARATION

## INPUT

```
data=''' var (  
    hello string = " hey "  
    sup int = 5  
  
    )  
    ''';
```

## OUTPUT

```
[Running] python -u "/Users/ashwin/Downloads/Go_Syntax.py"  
Syntax is correct .  
  
[Done] exited with code=0 in 0.084 seconds
```

# 2) SWITCH CASE

## INPUT

```
data=''' switch time {  
    case "morning":  
        fmt.Println("Time to wake up!")  
    case "night":  
        fmt.Println("Time to go to bed.")  
    default:  
        fmt.Println("Enjoy life")  
}  
    ''';
```

## OUTPUT

```
[Running] python -u "/Users/ashwin/Downloads/Go_Syntax.py"  
Syntax is correct .  
  
[Done] exited with code=0 in 0.066 seconds
```

### 3) FOR LOOP

INPUT

```
data='' for i := 1 ; i <= n; i++ {  
    sum += i    // sum = sum + i  
}  
...;
```

OUTPUT

```
[Running] python -u "/Users/ashwin/Downloads/Go_Syntax.py"  
Syntax is correct .  
  
[Done] exited with code=0 in 0.066 seconds
```

### 4) EXPRESSION

INPUT

```
data='' a + b *c + d - e*f + j  
...;
```

OUTPUT

```
[Running] python -u "/Users/ashwin/Downloads/Go_Syntax.py"  
Syntax is correct .  
  
[Done] exited with code=0 in 0.068 seconds
```

## 5) IF-ELSE

### INPUT

```
data='' x := 100  
      y := 200  
      if x == 50 {  
          fmt.Println("Germany")  
      } else if x == 100 {  
          fmt.Println("Japan")  
      } else {  
          fmt.Println("Canada")  
      }  
  }  
  ...
```

### OUTPUT

```
[Running] python -u "/Users/ashwin/Downloads/Go_Syntax.py"  
Syntax is correct .  
  
[Done] exited with code=0 in 0.071 seconds
```