Tadiwa Mangadze

Concepts of Programming Language
Due: 05/05/2020

Grammar Specification

function_stmt   : '(' IDENT ',' IDENT ')'

stmt   : KEYWORD:let IDENT ASSIGN (exp| FUNCTION)
         : IDENT function_stmt ';'

exp   : IDENT (('+'|'-') IDENT) ';'
         : INT (('+'|'-') INT) ';'

FUNCTION   : KEYWORD:fn function_stmt '{' exp '}' ';'

Screenshot(below)

```
let a = 5;
let b = 10;
let add = fn(x, y) {
x + y;
};
add(a, b);
```

```
tadiwamangadze@Tadiwas-MBP myProject % clear

tadiwamangadze@Tadiwas-MBP myProject % python monkey.py testcode.mnky
Result => 15
tadiwamangadze@Tadiwas-MBP myProject % python monkey.py
user-monkeylang % let a = 5; let b = 10; let add = fn(x, y) {x + y;}; add(a, b);
Result => 15
user-monkeylang % let a = 5;
user-monkeylang % let b = 10;
user-monkeylang % let add = fn(x, y){x + y;};
user-monkeylang % add(a, b);
Result => 15
user-monkeylang %
tadiwamangadze@Tadiwas-MBP myProject %
```