```
public class Parser {
           System.out.println("1Something is wrong.. " +
       if (curToken.getTokenType().equals(TokenType.END OF FILE)) {
               System.out.println("2Something is wrong.. " +
               System.exit(0);
        if (curToken.getTokenType().equals(TokenType.END OF FILE)) {
           System.out.println("end of file");
               System.out.println("3Something is wrong.. " +
```

```
System.exit(0);
       } else if (curToken.getTokenType().equals(TokenType.RIGHT CURLY)) {
       else if (curToken.getTokenType().equals(TokenType.WHILE)) {
            if (curToken.getTokenType().equals(TokenType.END OF FILE)) {
                   System.exit(0);
            } else if (curToken.getTokenType().equals(TokenType.LEFT PAR))
               if (curToken.getTokenType().equals(TokenType.END OF FILE))
(curToken.getTokenType().equals(TokenType.RIGHT PAR)) {
(curToken.getTokenType().equals(TokenType.END OF FILE)) {
                            System.exit(0);
                            System.out.println("6Something is wrong.. " +
                       System.exit(0);
```

```
(curToken.getTokenType().equals(TokenType.LEFT CURLY)) {
           if (curToken.getTokenType().equals(TokenType.END OF FILE)) {
                   System.exit(0);
           } else if (curToken.getTokenType().equals(TokenType.LEFT PAR))
               if (curToken.getTokenType().equals(TokenType.END OF FILE))
                       System.exit(0);
                       System.exit(0);
                   System.exit(0);
(curToken.getTokenType().equals(TokenType.RIGHT PAR)) {
```

```
System.exit(0);
(curToken.getTokenType().equals(TokenType.LEFT CURLY)) {
                       System.exit(0);
                   System.exit(0);
       else if (curToken.getTokenType().equals(TokenType.IDENITIFIER)) {
           if (curToken.getTokenType().equals(TokenType.END OF FILE)) {
                   System.exit(0);
               System.exit(0);
            } else if (curToken.getTokenType().equals(TokenType.EQUAL)) {
               if (curToken.getTokenType().equals(TokenType.END OF FILE))
                       System.exit(0);
```

```
(curToken.getTokenType().equals(TokenType.SEMI COLON)) {
                   System.exit(0);
           if (curToken.getTokenType().equals(TokenType.END OF FILE)) {
           } else if (curToken.getTokenType().equals(TokenType.LEFT PAR))
               if (curToken.getTokenType().equals(TokenType.END OF FILE))
                       System.out.println("21Something is wrong.. " +
                       System.exit(0);
                   System.exit(0);
(curToken.getTokenType().equals(TokenType.END OF FILE)) {
                           System.exit(0);
```

```
System.out.println("22Something is wrong.. " +
                            System.exit(0);
(curToken.getTokenType().equals(TokenType.END OF FILE)) {
                                System.exit(0);
                                System.out.println("23Something is wrong..
                                System.exit(0);
                            System.exit(0);
(curToken.getTokenType().equals(TokenType.SEMI COLON)) {
               System.exit(0);
           if (curToken.getTokenType().equals(TokenType.END OF FILE)) {
```

```
System.exit(0);
               if (curToken.getTokenType().equals(TokenType.END OF FILE))
                        System.out.println("29Something is wrong.. " +
                       System.exit(0);
                   System.exit(0);
(curToken.getTokenType().equals(TokenType.IDENITIFIER)) {
(curToken.getTokenType().equals(TokenType.END OF FILE)) {
                           System.exit(0);
                            System.out.println("30Something is wrong.. " +
(curToken.getTokenType().equals(TokenType.RIGHT PAR)) {
                                System.out.println("31Something is wrong..
                               System.exit(0);
                            System.exit(0);
```

```
System.out.println("32Something is wrong.. " +
                        System.exit(0);
               System.exit(0);
(String.valueOf(scanner.chNext).equals(TokenType.RIGHT PAR.getText()) ||
String.valueOf(scanner.chNext).equals(TokenType.SEMI COLON.getText())) {
                if (curToken.getTokenType().equals(TokenType.END OF FILE))
                        System.exit(0);
                        System.exit(0);
                    System.exit(0);
(!(String.valueOf(scanner.chNext).equals(TokenType.RIGHT PAR.getText()) ||
((String.valueOf(scanner.chNext).equals(TokenType.RIGHT PAR.getText()) ||
```

```
String.valueOf(scanner.chNext).equals(TokenType.SEMI_COLON.getText()))) {
        if (!(curToken.getTokenType().equals(TokenType.NUMBER) ||
curToken.getTokenType().equals(TokenType.IDENITIFIER))) {
```

```
System.exit(0);
curToken.getTokenType().equals(TokenType.IDENITIFIER)) {
(nextToken.getTokenType().equals(TokenType.IDENITIFIER) | |
nextToken.getTokenType().equals(TokenType.NUMBER)) {
rezerve=rezerve+curToken.qetText()+nextToken.qetText();
                         for (BooleanOperationType type :
BooleanOperationType.values()) {
                                control2=false;
                         if(control2) {
if(nextToken.getTokenType().equals(TokenType.WHILE)||
nextToken.getTokenType().equals(TokenType.IF) | |
nextToken.getTokenType().equals(TokenType.OUT)||
nextToken.getTokenType().equals(TokenType.IN)){
booleanValue=booleanValue+curToken.getText()+nextToken.getText();
rezerve=rezerve+curToken.getText()+nextToken.getText();
                         for (BooleanOperationType type :
BooleanOperationType.values()) {
                                control2=false;
```

```
private ProgramText source;
    Scanner(ProgramText source) {
             for (TokenType type : TokenType.values()) {
   if (String.valueOf(chNext).equals(type.getText())) {
              for (TokenType type : TokenType.values()) {
                  if (String.valueOf(chCur).equals(type.getText())) {
                       token = new SpecialToken(source, String.valueOf(chCur),
type);
```

```
TokenType.NUMBER);
                    if (string.equals(TokenType.WHILE.getText())) {
                        token = new KeywordToken(source, string,
TokenType.WHILE);
TokenType.IF);
                    } else if (string.equals((TokenType.OUT.getText()))) {
                        token = new KeywordToken(source, string,
TokenType.OUT);
                    } else if (string.equals((TokenType.IN.getText()))) {
                        token = new KeywordToken(source, string,
TokenType.OUT);
TokenType.IDENITIFIER);
                token = new EOFToken(source);
```

```
import java.io.IOException;
import java.nio.file.Files;
public class ProgramText {
   public static char EOF = '1';
   private String readWholeProgram() throws IOException {
       return new String(Files.readAllBytes(Paths.get("program2.txt")));
```

```
if (rez == progText.length()) {
    return EOF;
}
if (rez <= progText.length()) {
    return progText.charAt(rez);
}

return EOF;
}</pre>
```

```
public enum BooleanOperationType {

EQUAL_AND_EQUAL("=="), NOT_EQUAL("!="), LESS_AND_EQUAL("<="), GRATER_AND_EQUAL
(">="),
    LESS("<"), GRATER(">");

    public String getText() {
        return text;
    }

    private String text;

    BooleanOperationType(String text) {
        this.text = text;
    }

    BooleanOperationType() {
        this.text = this.toString();
    }
}
```

```
public class EOFToken extends Token {
    EOFToken(ProgramText source) {
        super(source);
        type = TokenType.END_OF_FILE;
    }
}
```

```
public class IdentifierToken extends Token{
   IdentifierToken(ProgramText source, String text, TokenType type) {
        super(source);
        this.text=text;
        this.type=type;
   }
}
```

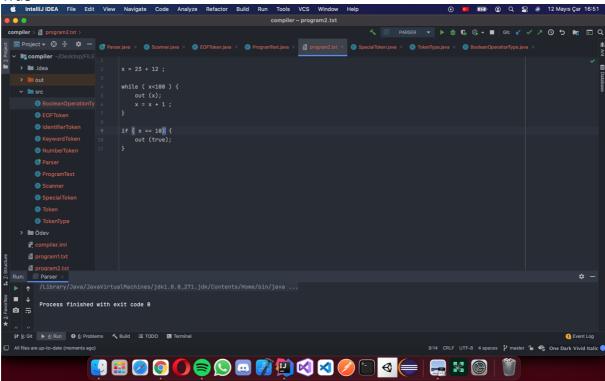
```
public class KeywordToken extends Token {
    KeywordToken(ProgramText source,String text, TokenType type) {
public class SpecialToken extends Token {
    SpecialToken(ProgramText source, String text, TokenType Specialtype) {
   public TokenType getTokenType() {
public enum TokenType {
    EQUAL("="), SEMI_COLON(";"), LESS_THAN("<"), GRATER_THAN(">"), MINUS("-"), MULTIPLY("*"), DIVIDE("/"), PLUS("+"), NOT("!"),
```

TokenType(String text) {

```
this.text = text;
}

TokenType() {
    this.text = this.toString();
}
}
```

True



False

