

Faults (Line numbers mentioned are w.r.t Printtokens2.java):

1. Line no.85: File not found exception. Replace null with empty string:
Existing code: `if(fname.equals(null))`
Modified code: `if(fname.equals(""))`
2. Line No.177:Existing Code: `if(res==1)return(true);`
Modified Code: `if(res==-1)return(true);`
3. Line No.180:Existing code: `{ if(ch==" " | ch=="\n" || ch == '\r') /* for string until meet another " */`
Modified Code: `if(ch==" " || ch=="\n" || ch == '\r') /* for string until meet another " */`
4. Line No.194:Existing Code: `if(ch == ' ' || ch=="\n" || ch=="\r" || ch==59)`
Modified Code: `if(ch == ' ' || ch=="\r" || ch==59) return true;`
5. Line No.252:Existing Code: If condition for comment token missing
Modified code: `if(type==comment)`

`{`
`System.out.print("comment,\"\" + tok);`
`}`
6. Line No.265:Ascii value of ; is 59.Not mentioned in the code
Existing code: `if(ident.charAt(0) == '/')`
Modified Code: `if(ident.charAt(0) == 59)`
7. Line No.311:number located at the first position.Hence, `charAt(i+1)` can be replaced by `charAt(i)`
Existing Code: `if(Character.isDigit(str.charAt(i+1)))`
Modified Code: `if(Character.isDigit(str.charAt(i)))`
8. Line No.353: loop might start with `charAt(0)` in the next instance..so replace `charAt(0)` with `charAt(i)`
Existing Code: `if (Character.isLetter(str.charAt(0)))`
Modified Code: `if(Character.isLetter(str.charAt(i)))`
9. Line No.467: Avoid errors like array access out of bounds
Existing code: `fname = args[1]`
Modified Code: `fname = args[0]`
10. Line No.475:Existing Code: `while (tok != "") {`
Modified Code: `while (tok != null) {`
11. Line No.465: Existing Code: `fname = new String();`
Modified Code:`fname=""`;