| %{  #include <stdio.h>  #include <stdlib.h>  %}  %% [0-9]+ { printf("NUMBER: %s\n", yytext); }  [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); }  \n { /\* Ignore newlines \*/ }  . { printf("UNRECOGNIZED: %s\n", yytext); }  %%  int main() {  yylex();  return 0;  } |
| --- |

| %option noyywrap  %{  #include <stdio.h>  #include <stdlib.h>  %}  %%  [0-9]+ { printf("NUMBER: %s\n", yytext); }  [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); }  \n { /\* Ignore newlines \*/ }  . { printf("UNRECOGNIZED: %s\n", yytext); }  %%  int main() {  yylex();  return 0;  } |
| --- |

| %%  %class Lexer  %unicode  %cup  %%  "if" { return sym.IF; }  "else" { return sym.ELSE; }  [0-9]+ { return sym.NUMBER; }  [a-zA-Z\_][a-zA-Z\_0-9]\* { return sym.IDENTIFIER; }  \n { /\* Ignore newlines \*/ }  . { System.err.println("Unrecognized character: " + yytext()); }  %% |
| --- |

| %{ #include <stdio.h> #include <stdlib.h> %}  %% [0-9]+ { printf("NUMBER: %s\n", yytext); } [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); } \n { /\* Ignore newlines \*/ } . { printf("ERROR: Unrecognized character '%s'\n", yytext); }  %%  int main() {  yylex();  return 0; } |
| --- |

| %{  #include <stdio.h>  #include <stdlib.h>  %}  %%  "if" { printf("KEYWORD: %s\n", yytext); }  "else" { printf("KEYWORD: %s\n", yytext); }  [0-9]+ { printf("NUMBER: %s\n", yytext); }  [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); }  \n { /\* Ignore newlines \*/ }  . { printf("ERROR: Unrecognized character '%s', skipping...\n", yytext); }  %%  int main() {  yylex();  return 0;  } |
| --- |

| %{  #include <stdio.h>  #include <stdlib.h>  %}  %%  "int" { printf("KEYWORD: %s\n", yytext); }  [0-9]+ { printf("NUMBER: %s\n", yytext); }  [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); }  [+\-\*/=] { printf("OPERATOR: %s\n", yytext); }  \n { /\* Ignore newlines \*/ }  . { printf("ERROR: Unrecognized character '%s'\n", yytext); }  %%  int main()  {  yylex();  return 0;  } |
| --- |

| %{  #include <stdio.h>  #include <stdlib.h>  %}  %%  "if" { printf("KEYWORD: %s\n", yytext); }  "else" { printf("KEYWORD: %s\n", yytext); }  [0-9]+ { printf("NUMBER: %s\n", yytext); }  [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); }  \n { /\* Ignore newlines \*/ }  . { printf("ERROR: Unrecognized character '%s', skipping...\n", yytext); }  %%  int main() {  yylex();  return 0;  } |
| --- |

| %{  #include <stdio.h>  #include <stdlib.h>  %}  %%  "if" { printf("KEYWORD: %s\n", yytext); }  "else" { printf("KEYWORD: %s\n", yytext); }  [0-9]+ { printf("NUMBER: %s\n", yytext); }  [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); }  [+\-\*/=] { printf("OPERATOR: %s\n", yytext); }  \n { /\* Ignore newlines \*/ }  . { printf("ERROR TOKEN: Unrecognized character '%s'\n", yytext); }  %%  int main() {  yylex();  return 0;  } |
| --- |

| int main() {  prntf("Hello, World!"); // Typo: 'printf' should be used  return 0;  } |
| --- |

| def foo(bar):  if bar > 0  print("Positive") |
| --- |

| %{  #include <stdio.h>  #include <stdlib.h>  %}  %% [0-9]+ { printf("NUMBER: %s\n", yytext); }  [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); }  [+\-\*/=] { printf("OPERATOR: %s\n", yytext); }  \n { /\* Ignore newlines \*/ }  . { printf("ERROR: Unrecognized character '%s'\n", yytext); }  %%  int main() {  yylex();  return 0;  } |
| --- |

| %{  #include <stdio.h>  #include <stdlib.h>  %}  %%  "if" { printf("KEYWORD: %s\n", yytext); }  "else" { printf("KEYWORD: %s\n", yytext); }  [0-9]+ { printf("NUMBER: %s\n", yytext); }  [a-zA-Z\_][a-zA-Z\_0-9]\* { printf("IDENTIFIER: %s\n", yytext); }  \n { /\* Ignore newlines \*/ }  . { printf("ERROR: Unrecognized character '%s'\n", yytext); }  %%  int main() {  yylex();  return 0;  } |
| --- |

| **%{ #define PRINT\_TOKEN(type)**  **printf("%s: %s\n", type, yytext); %} [0-9]+ { PRINT\_TOKEN("NUMBER"); } [a-zA-Z\_][a-zA-Z\_0-9]\* { PRINT\_TOKEN("IDENTIFIER"); }** |
| --- |