```
//program: counting No.of digits in binary number
//.l file-----
%{
# include <st dio.h>
# include "y.tab.h"
//yylval = atoi(yytext);return digit;
%%
[01] {yylval = atoi(yytext);return digit;}
%%
int yywrap()
}
//.y file-----
%{
 # include <st dio.h>
 int count = 0,c1 = 0;
%token digit
N : L \{ printf("No.of bits: %d\n",c1); return 0; \}
|L'\n';
L: L B {c1 = count;}
L: B {c1 = count;}
B: digit {count = count +1;}
%%
void main()
  yypar se();
}
void yyerror(char *s)
//program: postfix expression
// .l file-----
# include "y.t ab.h"
void yyerror(char *s);
%}
[0-9]+ {yylval = atoi(yytext);return id;}
[+/*-] {return yytext[0];}
%%
int yywrap(void){
return 1;
}
//.y file-----
```

```
%{
# include<st dio.h>
int yylex(void);
void yyerror(char *s);
%token id
%left '+' '-'
%left '*' '/'
%%
E1: E'\n' {return 0;}
| E {} ;
E : E ' +' T {printf("+");}
| E '-' T {printf("-");}
| T {} ;
T : T '*' F {printf("*");}
| T '/' F {print f ("/");}
| F {};
F: id {printf("%d",$1);}
.
%%
int main(void){
yypar se();
return 0;
 void yyerror(char *s)
//program: conversion of Binary number to decimal number
//.l file-----
%{
# include <st dio.h>
# include "y.t ab.h"
%}
%%
[01] {yylval = atoi(yytext);return digit;}
int yywrap()
{
  return 1;
//.y file-----
%{
  # include <st dio.h>
  void yyerror(char *s);
%}
%token digit
S: L \{ $ = $1;printf("Decimal Value: %d\n",$$);};
L: LB \{\$\$ = 2*\$1 + \$2;\}
| B {$$ = $1;}
```

```
B: digit \{\$\$ = \$1;\}
%%
void main()
  yypar se();
void yyerror(char *s)
}
//program: paranthesis Checking
//.l file-----
%{
# include <st dio.h>
# include "y.tab.h"
%}
%%
[()\n] {return yytext[0];}
int yywrap()
{return 1;}
//.y file-----
%{
# include <st dio.h>
void yyerror(char *s);
int flag = 0;
%}
%token'('')''\n'
N : L' \in \{ printf("Valid = 1; return 0; \} \}
L:L'('L')' {}
| {}
%%
void main()
  yypar se();
  if(flag == 0) printf("I nvalid");
void yyerror(char *s)
}
```