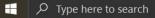
```
srihari@LAPTOP-AJMTFS87: ~/compiler_design/week7
srihari@LAPTOP-AJMTFS87:~/compiler design/week7$ cat q1.1
#include<bits/stdc++.h>
using namespace std;
string init="",cond="",body="";
 init+=yytext;
"while".*"}" {
       int i=0;
       while(yytext[i] != '(')i++;
        while(yytext[i] != ')'){
               cond += yytext[i];i++;
        i++;
        while(yytext[i] != '{')i++;
        while(yytext[i] != '}'){
                body += yytext[i];
int main(){
       yyin = fopen("q1sample.txt","r");
        yylex();
        cout<<"for("<<init<<cond<<";){\n\t"<<body<<"\n}\n";</pre>
        return 0;
srihari@LAPTOP-AJMTFS87:~/compiler_design/week7$ cat q1sample.txt
x = 0; while (x < 3) {print x; x = x + 1; }
 rihari@LAPTOP-AJMTFS87:~/compiler design/week7$ ./a.out
for(x = 0; x < 3;)
       print x; x = x + 1;
srihari@LAPTOP-AJMTFS87:~/compiler_design/week7$
```





































```
Convert the given switchcose statement to elsely statement
                                              DUTPUT
  Input (93 sample. txt)
                                     if (expression == Value 1) {
  Switch (expression)
                                            Statement 1; break;
    Case value 1:
                                     else if (expression == value) {
        Statement 1;
                                          Statementz; break;
        loveak;
                                    Else E
Statement Default;
   Case value?
        Statement?
        break;
  default:
       Statement Default;
 -1.5
 #include (stdio. h)
 -1.+.
 "Switch" . * "3" }
          int i=0;
         While (yytext[i] 1= 'c') i++;
          int expr=i;
          while (yytest [i] != 'c') i++;
          int temp =0;
          do {
               1+=5;
               if (temp == 0) printf (" if ("))
               else printf(" else ifc");
              temp= expri
              while (yytext[temp] !=')') {
                    printf("1.c", yytent(temp]);
                   temp++;
```

```
pritf( == ")
     While (yytext [i] != ':') {
        printf("te", yytext[i]);
    printf (")")>
    printf ("Elalt");
   While (yytext [i] != 'c' && yytext [i] != 'd') {
         printf(" t'c", yytext[i]);
    Prints ("1031")
3 while (yytext[i) !='d');
  printf(" else [109)
   while (yytext [i] != '3') {
           printf ("+c", yytext(i))
    printf("103");
   Int manic) &
        yyin = fopen ( "9. 3 sample. txt", "1");
        yylex();
         return O;
```

```
srihari@LAPTOP-AJMTFS87: ~/compiler_design/week7
                                                                                                                                                                                                    srihari@LAPTOP-AJMTFS87:~/compiler design/week7$ cat q3.1
#include<stdio.h>
while(yytext[i]!='(')i++;
       i++;
       int expr=i;
       while(yytext[i]!='c')i++;
       int temp=0;
       do{
               if(temp==0)
                       printf("if(");
               else
                       printf("else if(");
               temp=expr;
               while(yytext[temp]!=')'){printf("%c",yytext[temp]);temp++;}
               printf("==");
               while(yytext[i]!=':'){printf("%c",yytext[i]);i++;}
               printf(")");
               printf("{\n\t");
               while(yytext[i]!='c'&&yytext[i]!='d'){printf("%c",yytext[i]);i++;};
               printf("\n}\n");
       }while(yytext[i]!='d');
       printf("else{\n");
       while(yytext[i]!='}'){printf("%c",yytext[i]);i++;}
       printf("\n}");
int main()
yyin = fopen("q3samples.txt","r");
yylex();
return 0;
srihari@LAPTOP-AJMTFS87:~/compiler_design/week7$
```

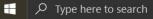
O # 0 = 6 × 5 × 6 0 0 0 N

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```
srihari@LAPTOP-AJMTFS87: ~/compiler_design/week7
                                                                                                                                                                                                         srihari@LAPTOP-AJMTFS87:~/compiler_design/week7$ cat q3samples.txt
switch(expression){case value1: statement1; break;case value2: statement2; break;default: statementDefault;}
srihari@LAPTOP-AJMTFS87:~/compiler_design/week7$ ./a.out
if(expression==value1){
        statement1; break;
else if(expression==value2){
        statement2; break;
else{
statementDefault;
srihari@LAPTOP-AJMTFS87:~/compiler_design/week7$
```































```
Write a lex program to corner the following nested
 for loop statement to nested do while statement.
      Input (925cmple. txc)
                                         inst
    for (init; Cordition; increment) ?
       for (init; Condition; incomment) {
                                            do 2
            Statement (5);
                                                Statements(5);
                                               Incrementi
    Statement (5);
                                           3 while ( Goodi tras)
                                           Statement (5)
                                           increment;
                                       ] while (condition);
  1.5
#include (bits / stdc++.h)
using ramespace estd;
String 21="", x2="", ye1=" ", ye2=" ", Z1=" ", Z2="", b1=" , b2="
1.3
-/10-/-
efort wifer " " " " y
       int 1=0;
       while (yytext [i] != '(') i++;
       While (yytest [i] != ';') {x1+=yytext[i];i++)} its
      while (yytext [i] !=';') { fel += yytext[i]; i+t) i++;
       While (yytext[i] != 1) { ZI += yytext[i], i++, 3 i++;
      While (yytext[i] != 'E') i++;
       i++;
      While [yytext[i] != '(') iff)
       While (yytext[i] != '; ) { 1/2+=yytext[i]; i++; }
       1++;
      while (yytext[i]!=')) {ye2+=yytext[i]; i++;} i++;
```

```
while (yytext [i] !='j') { Z2 += yytext [i]; i++; } i++;
while (yytext[i] != '¿') i++;
 while (yytext [i] != '3') { bz += yytext[i]; i++; 3
 i++)
 while Lyytext [i] 1= '3') { b1 += yytext [i]; "+x;3
3 consider
int main() {
    yyin = fopen( 92 sample txt", "Y");
    yylex()>
    Contexniccondex "do & Init" ex 222 " Initit 4 be ex
       "Intt 1 " (224"; Int) while (" (4 yez 4"); hm It"
       blec" Int "Lezie"; Injunile ("expele");
    Veturn 0;
```

```
srihari@LAPTOP-AJMTFS87: ~/compiler_design/week7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #include<bits/stdc++.h>
using namespace std;
string x1="",x2="",ye1="",ye2="",z1="",z2="",b1="",b2="";
"for".*"for".*"}" {
                     int i=0;
                     while(yytext[i] != '(')i++;
                    while(yytext[i] != ';'){x1 += yytext[i];i++;}i++;
while(yytext[i] != ';'){ye1 += yytext[i];i++;}i++;
while(yytext[i] != ')'){z1 += yytext[i];i++;}i++;
                     while(yytext[i] != '{')i++;
                     while(yytext[i] != '(')i++;
                     while(yytext[i] != ';'){ x2 += yytext[i];i++; }
                     while(yytext[i] != ';'){ ye2 += yytext[i];i++; }
                     while(yytext[i] != '{')i++;
                                    while(yytext[i] != '}'){b2 += yytext[i];i++;}
                     while(yytext[i] != '}'){b1 += yytext[i];i++;}
int main(){
                     yyin = fopen("q2sample.txt","r");
                     cout << x1 << endl << "do\{ \n\t" << x2 << "\n\t\t" << x2 << "\n\t\" << x2 << "\n\t\" \\" << x2 << "\
                     return 0;
  rihari@LAPTOP-AJMTFS87:~/compiler_design/week7$ ./a.out
 init
                       init
                     do{
                                             statement(s);
                                              increment;
                     }while( condition);
                     statement(s);
                        increment;
 }while( condition);srihari@LAPTOP-AJMTFS87:~/compiler_design/week7$
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```