EXP NO: 02

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ASSIGNMENT 2

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1. Write a lex program to accept string which have 0's as last character.

CODE:

```
%{
#include<stdio.h>
%}

letter [a-zA-Z]
digit [0-9]

%%
({letter}|{digit})*0        {printf("accepted");}
.*                          {printf("not accepted");}
%%

void main()
{
  yylex();
 }
int yyerror()
{
   return(1);
}
int yywrap()
{
return(1);
}
```

OUTPUT:

```
C:\Flex Windows>lex 2a.l

C:\Flex Windows>gcc lex.yy.c

C:\Flex Windows>a.exe
aaaa0
accepted
a
not accepted
1
not accepted
10
accepted
ab0
accepted
0ab
not accepted
```

2. Write a lex program to accept even number of b's

CODE:

```
%{
#include<stdio.h>
%}

%%
(a|ba*ba*)*          {printf("accepted");}
.*                   {printf("not accepted");}
%%
void main()
{
  yylex();
 }
int yyerror()
{
   return(1);
}
int yywrap()
{
return(1);
}
```

OUTPUT:

```
C:\Flex Windows>lex 2b.l

C:\Flex Windows>gcc lex.yy.c

C:\Flex Windows>a.exe
ab
not accepted
abb
accepted
abbb
not accepted
aabb
accepted
```

3. Write a program in lex to accept strings with number of 1's should be the count of 3

CODE:

```
%{
#include<stdio.h>
%}

%%
(a|b)*1(a|b)*1(a|b)*1(a|b)*     {printf("accepted\n");}
.*                      {printf("not accepted\n");}
%%

void main()
{
  yylex();
}
int yyerror()
{
   return(1);
}
int yywrap()
{
return(1);
}
```

OUTPUT:

```
C:\Flex Windows>lex 2c.l

C:\Flex Windows>gcc lex.yy.c

C:\Flex Windows>a.exe
111
accepted

ab1
not accepted

a111b
accepted
```

Result

The programs has been executed successfully.