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| **Name:**Liya Elizabeth Joe  **RollNo:**48 |
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| **Lex program to recognize the Regular Expressions** |
| **Aim:** Lex program to recognize the following regular expressions.  i.aa(a+b)\*bb  ii.(0+1)\*000(0+1)\* |
| **Program**  %{  #include<stdio.h>  #include<string.h>  %}  %%  aa(a|b)\*bb {printf("String Accepted\n");return 0;}  (0|1)\*000(0|1)\* { printf("String Accepted\n");return 0;}  .+ {printf("String Rejected\n");return 0;}    %%  int yywrap(void){}  int main()  {  printf("Enter the string");  yylex();  return 0;    } |
| **Result:** Implemented a lex program to recognize the regular expression and output was obtained successfully. |
| **Remarks:**(To be filled by faculty) |
| **Algorithm**   1. Start 2. Input the string. 3. If the string matches the pattern aa(a+b)\*bb or (0+1)\*000(0+1)\* then print String Accepted else print String Rejected. 4. Stop.   **Sample Input and Output** |