**Practical : 6**

**Aim: Write a program to implement calculator using lex and YACC**.

**Code: Lex file: p6.l**

#include <stdio.h>

#include <ctype.h>

#include <stdbool.h>

bool valid\_var\_name(const char\* str)

{

if (!str) return false;

const char\* s = str;

while (\*s != '\0')

{

if ((s == str && isdigit(\*s)) ||(!(\*s == '\_') && (!isascii(\*s) || iscntrl(\*s) || ispunct(\*s))))

{

return false;

}

++s;

}

return true;

}

int main(void)

{

const char\* var[] = {"foo","\_1test","foo\_42","5bar","ab$f","!f","f~o","abc","210","ab212","ab"};

for (int i = 0; i < sizeof(var) / sizeof(const char\*); ++i)

{

printf("\"%s\" variable name is valid ? %s\n", var[i], (valid\_var\_name(var[i]) ? "Yesvalid" : "Not valid"));

}

return 0;

}

**Output:**

