```
/* Lex Program to check whether a number is Prime or Not */
Cd Documents
Lex prog4.l
Cc lex.yy.c - Ifl
./a.out
```

```
왕 {
   #include<stdio.h>
   #include<stdlib.h>
   int flag,c,j;
용 }
/* Rule Section */
응응
[0-9]+ {c=atoi(yytext);
         if(c==2)
         {
           printf("\n Prime number");
         else if(c==0 || c==1)
           printf("\n Not a Prime number");
         }
           for (j=2;j<c;j++)</pre>
         if(c%j==0)
           flag=1;
         if(flag==1)
           printf("\n Not a prime number");
         else if(flag==0)
           printf("\n Prime number");
         }
       }
응응
// driver code
int main()
```

```
yylex();
return 0;
}
```

```
/* Lex program to check whether
      - given string is Palindrome or Not */
Cd Documents
Lex prog3.l
Cc lex.yy.c - Ifl
./a.out
    int i, j, flag;
    [a - z A - z 0 - 9]*
    for (i = 0, j = yyleng - 1; i <= j; i++, j--) {</pre>
        if (yytext[i] == yytext[j]) {
             flag = 1;
             flag = 0;
    if (flag == 1)
        printf("Given string is Palindrome");
        printf("Given string is not Palindrome");
응 응
    int main()
    printf("Enter a string :");
    yylex();
```

```
return 0;
}
int yywrap()
{
   return 1;
}
```

/* Lex program to check whether input is digit or not. */Lex digit.ICc lex.yy.c - IfI./a.out

```
/*Lex program to check whether an year is a leap year or not*/
Cd Documents
Lex progo.l
Cc lex.yy.c - Ifl
./a.out
```

```
void check(char *);
응 }
응응
[0-9];
[0-9][0-9];
[0-9][0-9][0-9];
[0-9][0-9][0-9][0-9] { printf("%s", yytext); check(yytext); }
[0-9][0-9][0-9][0-9]+;
int main()
    extern FILE *yyin;
    yyin=fopen("num", "r");
    yylex();
void check(char *a)
    int x=0, i;
        x=x*10+(a[i]-'0');
    if (x%400 == 0)
        printf("\tleap year\n");
```

```
else if(x%4==0&&x%100!=0)
    printf("\tleap year\n");

else
    printf("\tnot a leap year\n");
}
```