



Faculty of Technology and Engineering

Computer Science and Engineering

Practical

Academic Year	:	2025-26	Semester	:	6
Course code	:	CSE312	Course name	:	Design of language processing

Practical - 4

Aim:

- Objective 3:** Write a program which validate the password as per given rules.

- length can be 9 to 15 characters
- includes lower case letter, upper case letter, digit, symbols (*, ; # \$ @)
- minimum count for each category must be one

2. Program (Code)

```
%{
#include <stdio.h>
#include <string.h>
#include <ctype.h>

int has_lower = 0, has_upper = 0, has_digit = 0, has_special = 0;
char password[100];
int pwd_len = 0;
}%

%%
[a-z] { password[pwd_len++] = yytext[0]; has_lower = 1; }
[A-Z] { password[pwd_len++] = yytext[0]; has_upper = 1; }
[0-9] { password[pwd_len++] = yytext[0]; has_digit = 1; }
[*;#$@] { password[pwd_len++] = yytext[0]; has_special = 1; }
\n { password[pwd_len] = '\0'; return 0; }
```

```
.      { password[pwd_len++] = yytext[0]; }  
%%  
  
int yywrap() {  
    return 1;  
}  
  
int main() {  
    // printf("Enter password:\n");  
    yylex();  
  
    int valid = 1;  
  
    // Check length (9 to 15 characters)  
    if (pwd_len < 9 || pwd_len > 15) {  
        valid = 0;  
    }  
  
    // Check minimum count for each category  
    if (!has_lower || !has_upper || !has_digit || !has_special) {  
        valid = 0;  
    }  
  
    if (valid) {  
        printf("Valid password\n");  
    } else {  
        printf("Invalid password\n");  
    }  
  
    return 0;  
}
```

3. Output (Screen Shot)

```
debdootmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 > main
> echo "a@1T" | ./objective4
Invalid password
debdootmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 > main
> echo "Passw0rd@123" | ./objective4
Valid password
debdootmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 > main
> echo "MyP@ssw0rd99" | ./objective4
Valid password
debdootmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 > main
> echo "password@123" | ./objective4
Invalid password
debdootmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 > main
> echo "Password123" | ./objective4
Invalid password
debdootmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 > main
> echo "VeryLongPassword@12345" | ./objective4
Invalid password
debdootmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 > main
> echo "Password@Only" | ./objective4
Invalid password
debdootmanna@Mac.mshome.net ~ > College > Sem 6 by college > DLP > 4 > main
> echo "PASSWORD@123" | ./objective4
Invalid password
```