



## 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)

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