

Practical 3 :

```
#include <stdio.h>
```

```
#include <string.h>
```

```
#include <ctype.h>
```

```
int main() {
```

```
    char username[50], password[50];
```

```
    int i, digit = 0, upper = 0, lower = 0, special = 0;
```

```
    // INPUT
```

```
    printf("Enter Username: ");
```

```
    fgets(username, sizeof(username), stdin);
```

```
    username[strcspn(username, "\n")] = '\0';
```

```
    printf("Enter Password: ");
```

```
    fgets(password, sizeof(password), stdin);
```

```
    password[strcspn(password, "\n")] = '\0';
```

```
    // USERNAME VALIDATION
```

```
    if (strlen(username) < 5) {
```

```
        printf("Invalid Username! Must be at least 5 characters.\n");
```

```
        return 0;
```

```
    }
```

```
    for (i = 0; username[i] != '\0'; i++) {
```

```
        if (username[i] == ' ') {
```

```
            printf("Invalid Username! Spaces not allowed.\n");
```

```
            return 0;
```

```
        }
```

```
    }
```

```

// PASSWORD CHECK
if (strlen(password) < 6) {
    printf("Invalid Password! Must be at least 6 characters.\n");
    return 0;
}

for (i = 0; password[i] != '\0'; i++) {
    if (isdigit(password[i])) digit = 1;
    else if (isupper(password[i])) upper = 1;
    else if (islower(password[i])) lower = 1;
    else special = 1;
}

if (!digit || !upper || !lower || !special) {
    printf("Invalid Password! Must contain:\n");
    printf("- At least one digit\n");
    printf("- One uppercase letter\n");
    printf("- One lowercase letter\n");
    printf("- One special symbol\n");
    return 0;
}

// IF ALL VALID
printf("\nLogin Successful!\n");
printf("Username and Password are valid.\n");

return 0;
}

```

Enter Username: students07

Enter Password: Abx@167

Login Successful!

Username and Password are valid.