

# PASSWORD MANAGER

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**Subject code**:-24CAP-152

**Subject name**:- Data structure using C

**AIM** :- To Develop Password Manager Using Data Structure in C

Procedure Code:-

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

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

```
#define MAX_PASSWORDS 100
```

```
#define MAX_LENGTH 50
```

```
typedef struct {
```

```
    char website[MAX_LENGTH];
```

```
    char username[MAX_LENGTH];
    char password[MAX_LENGTH];
} PasswordEntry;

PasswordEntry passwords[MAX_PASSWORDS];
int passwordCount = 0;

void addPassword() {
    if (passwordCount < MAX_PASSWORDS) {
        printf("Enter website: ");
        scanf("%[^\n]",
passwords[passwordCount].website);
        printf("Enter username: ");
        scanf("%[^\n]",
passwords[passwordCount].username);
        printf("Enter password: ");
        scanf("%[^\n]",
passwords[passwordCount].password);
        passwordCount++;
        printf("Password added successfully.\n");
    } else {
```

```
        printf("Password storage is full.\n");
    }
}
```

```
void viewPasswords() {
    if (passwordCount == 0) {
        printf("No passwords stored.\n");
        return;
    }
    printf("--- Stored Passwords ---\n");
    for (int i = 0; i < passwordCount; i++) {
        printf("Website: %s, Username: %s, Password: %s\n",
                passwords[i].website, passwords[i].username,
                passwords[i].password);
    }
}
```

```
void findPassword() {
    char searchWebsite[MAX_LENGTH];
    printf("Enter website to find password: ");
```

```
scanf("%[^\\n]", searchWebsite);

for (int i = 0; i < passwordCount; i++) {
    if (strcmp(passwords[i].website, searchWebsite) ==
0) {
        printf("Website: %s, Username: %s, Password:
%s\\n",

            passwords[i].website,
passwords[i].username, passwords[i].password);
        return;
    }
}

printf("Password for website '%s' not found.\\n",
searchWebsite);
}
```

```
int main() {
    int choice;
    do {
        printf("\\nPassword Manager\\n");
        printf("1. Add Password\\n");
```

```
printf("2. View Passwords\n");
printf("3. Find Password\n");
printf("4. Exit\n");
printf("Enter your choice: ");
scanf("%d", &choice);

switch (choice) {
    case 1: addPassword(); break;
    case 2: viewPasswords(); break;
    case 3: findPassword(); break;
    case 4: printf("Exiting.\n"); break;
    default: printf("Invalid choice.\n");
}
} while (choice != 4);
return 0;
}
```

## OUTPUT

## Password Manager

1. Add Password
2. View Passwords
3. Find Password
4. Exit

Enter your choice: 1|

Enter website: Kirtee@123gmail.com

Enter username: KK@123

Enter password: mypasswormanager

Password added successfully.

## Password Manager

1. Add Password
2. View Passwords
3. Find Password
4. Exit

Enter your choice: 2

--- Stored Passwords ---

Website: Kirtee@123gmail.com, Username: KK@123, Password: mypasswormanager

## Password Manager

1. Add Password
2. View Passwords
3. Find Password
4. Exit

Enter your choice: 3

Enter website to find password: Kirtee@123gmail.com

Website: Kirtee@123gmail.com, Username: KK@123, Password: mypasswormanager

## Password Manager

1. Add Password
2. View Passwords
3. Find Password
4. Exit

Enter your choice: 4

Exiting.

=== Code Execution Successful ===

