	PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE - 411043
	DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGG. ACADEMIC YEAR: 2022-23 SEM: 2

CLASS : T. E. E&TC		**SUBJECT:** NS LAB
EXPT. NO.: 01	**Roll No.:**	**DATE:**

Experiment 1: Design and implement for the insecurity of default passwords, printed passwords and password in plain text form.

DEFAULT PASSWORD:

Code:

```cpp
//Milan Kumar Parida T.E.7 L7 32320
#include <iostream>
#include <conio.h>
#include <string>
using namespace std;
int main() {
 // Read the user's username and password
 string username, password;
 cout << "Enter your username: ";
 cin >> username;
 cout << "Enter your password: ";
 // Hide the user's input with asterisks
 char ch;
 while (true) {
 ch = getch();
 if (ch == '\r') {
 break;
 }
 password += ch;
 cout << '*';

 }
```

```cpp
    // Check if the password is the default password
    string default_password = "password";
    if (password == default_password) {
    cout << endl << "You are using the default password. Please change your
password." << endl;

    // Prompt the user to enter a new password
    string new_password;
    cout << "Enter a new password: ";
    cin >> new_password;
    // Confirm the new password
    string confirm_password;
    cout << "Confirm your new password: ";
    cin >> confirm_password;
    // Check if the new password is confirmed correctly
    if (new_password == confirm_password) {
    password = new_password;
    cout << "Password changed successfully!" << endl;
    } else {
    cout << "Password confirmation failed. Please try again." << endl;
    }
    }
    // Proceed with the rest of the program...
    return 0;
    }
```

Output:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

PS D:\VSCodes\C++> cd "d:\VSCodes\C++\" ; if ($?) { g++ pass.cpp -o pass } ; if ($?) { .\pass }
Enter your username: Milan
Enter your password: ********
You are using the default password. Please change your password.
Enter a new password: Qwert
Confirm your new password: Qwerty
Password confirmation failed. Please try again.
PS D:\VSCodes\C++> █
```
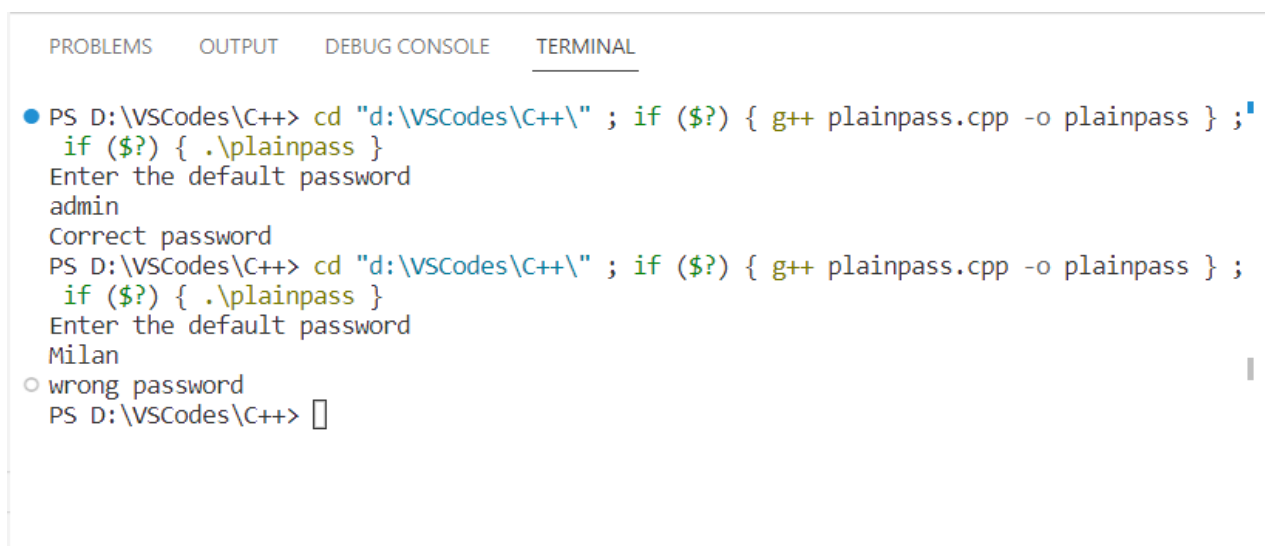
PLAIN TEXT PASSWORD:

Code:

```cpp
//Milan Kumar Parida T.E.7 L7 32320
#include <iostream>
using namespace std;

int main()
{
    string password="admin";
    cout<<"Enter the default password"<<endl;
    string passin;
    getline(cin,passin);
    if(passin==password)
    {
        cout<<"Correct password"<<endl;
    }
    else
    {
        cout<<"wrong password"<<endl;
    }
}
```

OUTPUT:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

● PS D:\VSCodes\C++> cd "d:\VSCodes\C++\" ; if ($?) { g++ plainpass.cpp -o plainpass } ;
  if ($?) { .\plainpass }
  Enter the default password
  admin
  Correct password
  PS D:\VSCodes\C++> cd "d:\VSCodes\C++\" ; if ($?) { g++ plainpass.cpp -o plainpass } ;
  if ($?) { .\plainpass }
  Enter the default password
  Milan
○ wrong password
  PS D:\VSCodes\C++> []
```

PRINTED PASSWORD:

Code:

```cpp
//Milan Kumar Parida T.E.7 L7 32320
#include <iostream>
#include <conio.h>
using namespace std;

int main()
{ char password[55];

    cout << "password:\n";
    int p = 0;
    do {         password[p] = getch();
    if (password[p] != '\r')
    {
        cout << "*";
    }
        p++;
    }
    while (password[p-1] != '\r');
    password[p-1] = '\0';
    cout << "\nYou have entered " << password << " as password.";
    getch();
    return 0;
}
```

Output:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

PS D:\VSCodes\C++> cd "d:\VSCodes\C++\" ; if ($?) { g++ printedpass.cpp -o printedpass } ;
 if ($?) { .\printedpass }
password:
**********
You have entered qwertyuiop as password.
```