**Activity 01**

Syntax:

using System;

namespace UserNamespace

{

public abstract class User

{

private string user\_id;

protected string user\_password;

public User(string id, string pass)

{

this.user\_id = id;

this.user\_password = pass;

}

public bool verifyLogin(string id, string pass)

{

if (this.user\_id.Equals(id) && this.user\_password.Equals(pass))

{

return true;

}

else

{

return false;

}

}

public virtual void updatePassword(string newPassword)

{

this.user\_password = newPassword;

Console.WriteLine("Password updated.");

}

}

public class Administrator : User

{

private string admin\_name;

public Administrator(string name, string id, string pass) : base(id, pass)

{

this.admin\_name = name;

Console.WriteLine("Admin created.");

}

public void updateAdminName(string name)

{

this.admin\_name = name;

Console.WriteLine("\nAdmin name updated.");

}

public override void updatePassword(string newPassword)

{

this.user\_password = newPassword;

Console.WriteLine("\nAdmin password updated.");

}

public string getAdmin\_name()

{

return this.admin\_name;

}

}

public class MainClass

{

public static void Main(string[] args)

{

User admin = new Administrator("Matthew", "id", "pass");

login((Administrator)admin);

}

static void login(Administrator admin)

{

while (true)

{

Console.WriteLine("\n-- Login --");

Console.Write("Enter ID : ");

string id = Console.ReadLine();

Console.Write("Enter Password : ");

string pass = Console.ReadLine();

if (admin.verifyLogin(id, pass))

{

Console.WriteLine("\nHello, " + admin.getAdmin\_name());

break;

}

else

{

Console.WriteLine("Incorrect credentials.");

}

}

run(admin);

}

static void run(Administrator admin)

{

while (true)

{

Console.WriteLine("\n1. Update admin password.");

Console.WriteLine("2. Update admin name.");

Console.WriteLine("3. Log out.");

Console.Write("Ano gusto mo gawin : ");

int input = Convert.ToInt32(Console.ReadLine());

switch (input)

{

case 1:

Console.Write("\nEnter new password : ");

admin.updatePassword(Console.ReadLine());

break;

case 2:

Console.Write("\nEnter new admin name : ");

admin.updateAdminName(Console.ReadLine());

break;

case 3:

Console.WriteLine("\nLog out na ko man.");

login(admin);

break;

default:

Console.WriteLine("Wala namang ganyan e.");

break;

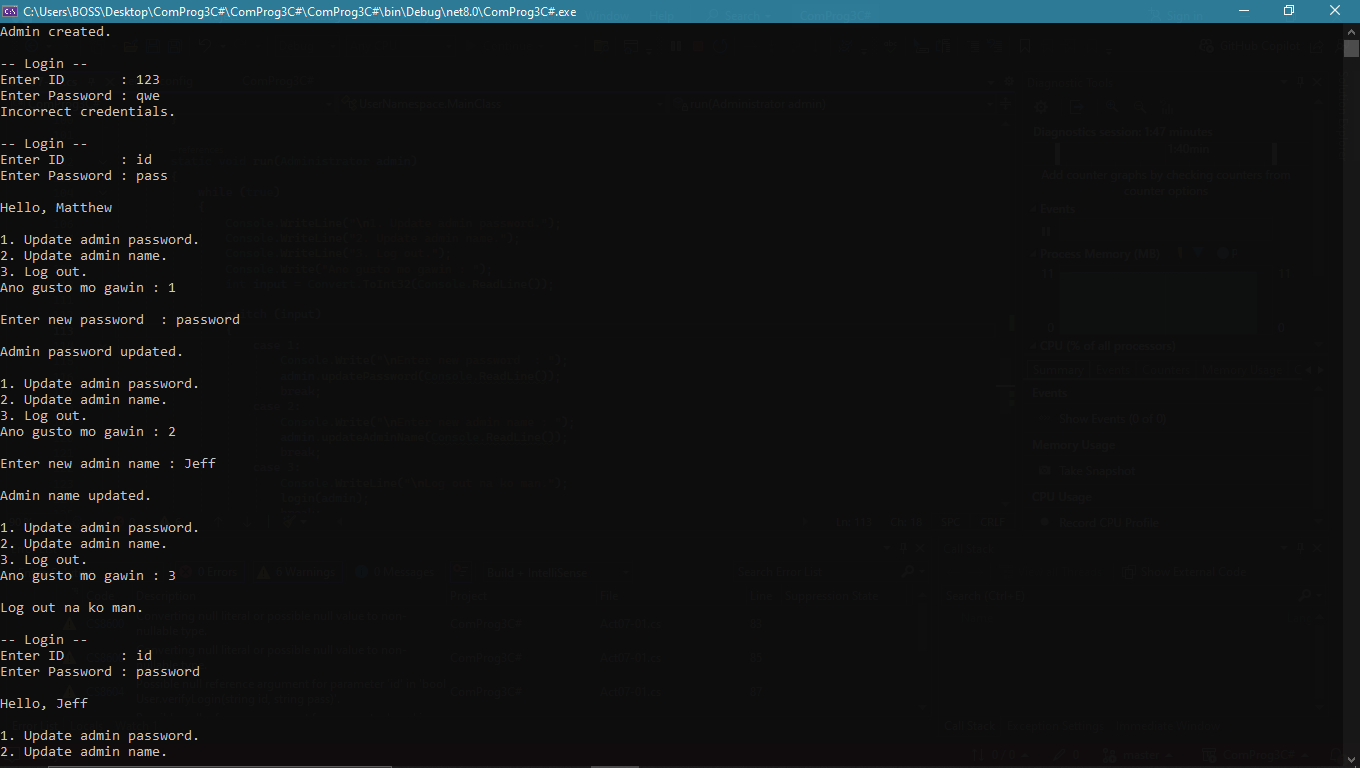
}

}

}

}

}

Output: