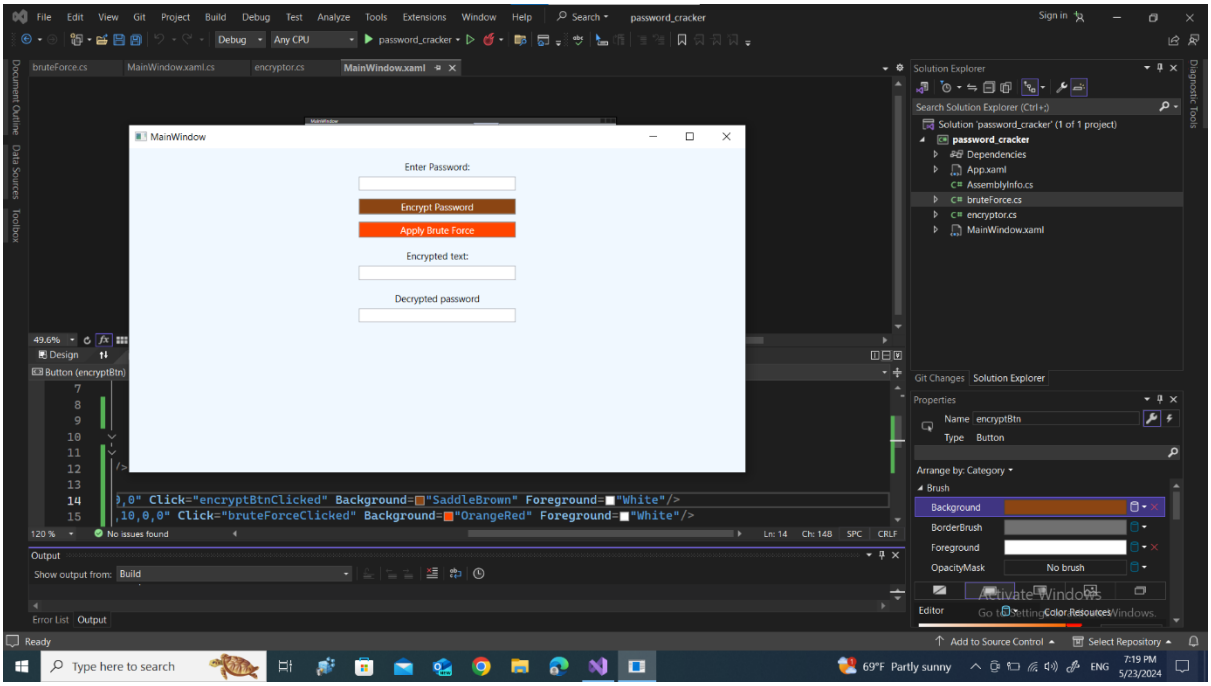
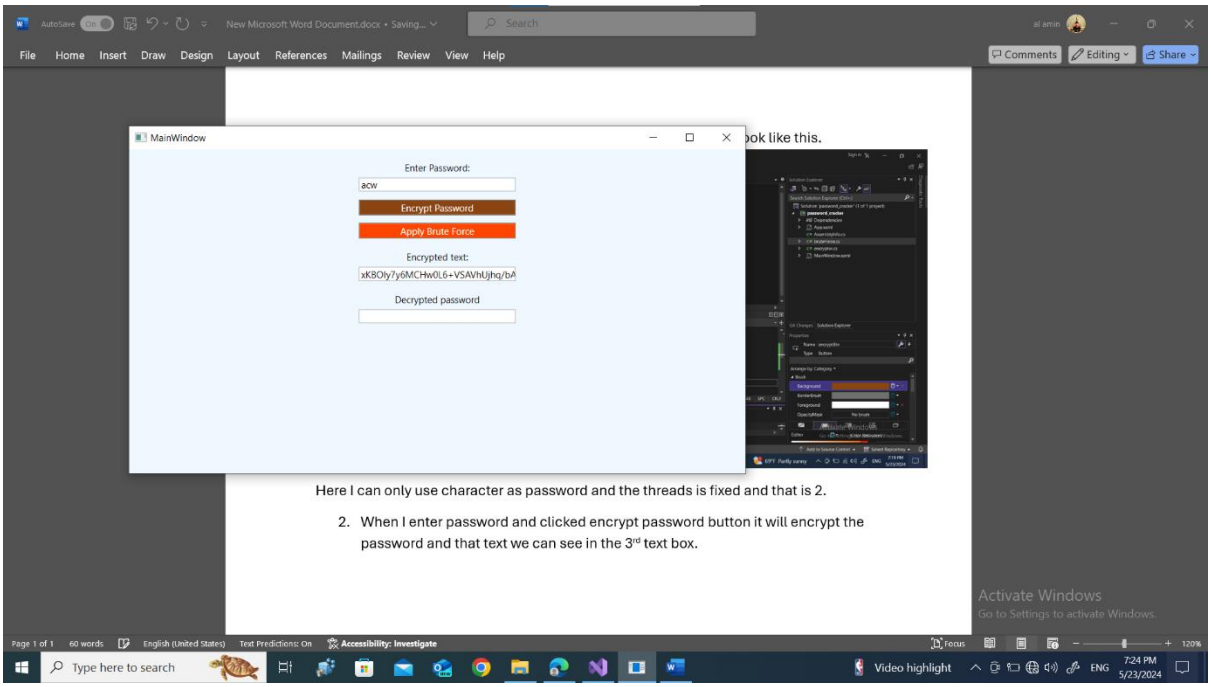
1. When run the code the main window will pop up and it will look like this.



Here I can only use character as password and the threads is fixed and that is 3.

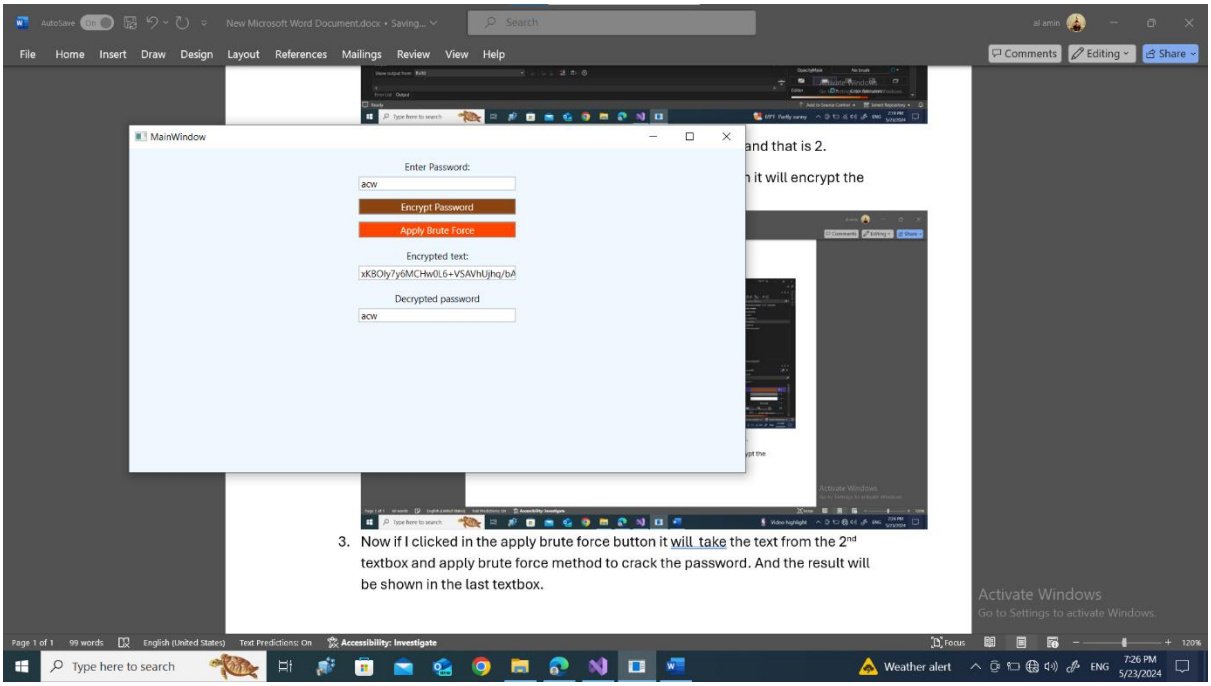
```
private const string Chars = "abcdefghijklmnopqrstuvwxyz";
private const int maxThereads = 3;
1 reference
```

2. When I enter password and clicked encrypt password button it will encrypt the password and that text we can see in the 3rd text box.



3. Now if I clicked in the apply brute force button it will take the text from the 2nd textbox and apply brute force method to crack the password. And the result will

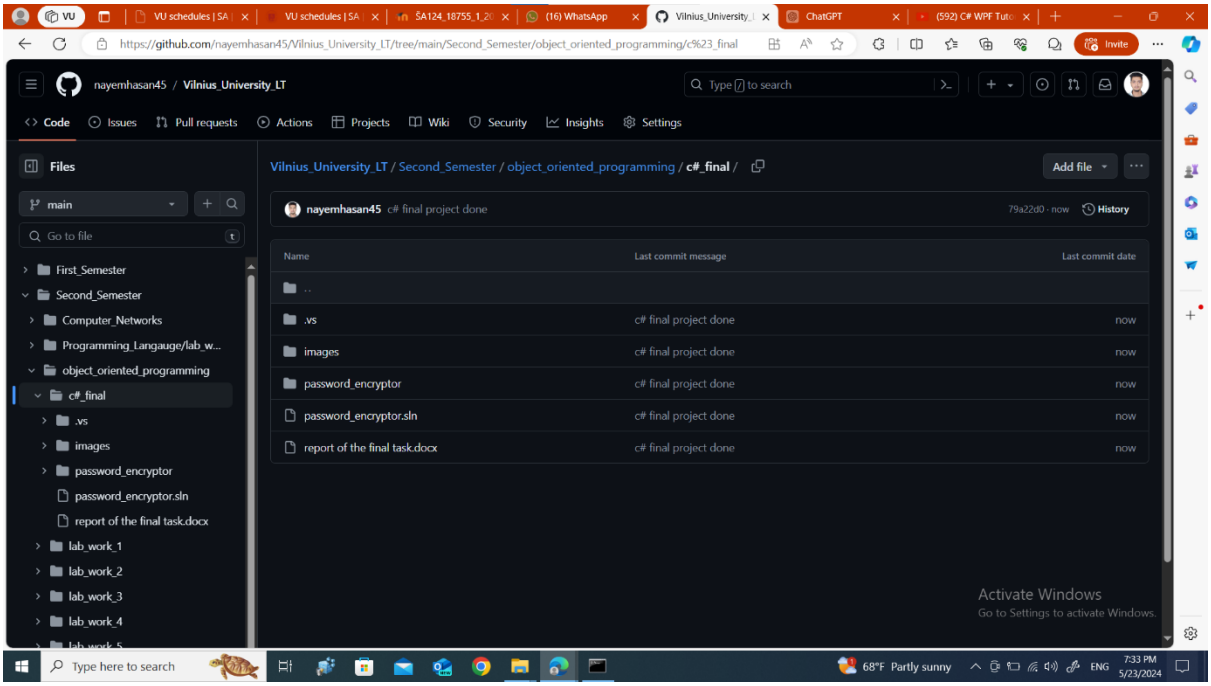
be shown in the last textbox.



4. For encryption I use sha256 hashing algorithm

```
2 references
public static class passwordEncryptor
{
    private static readonly string Salt = "STATIC_SALT";
    2 references
    public static string Encrypt(string pass)
    {
        using(var sha256=System.Security.Cryptography.SHA256.Create())
        {
            var saltPass = pass + Salt;
            byte[]bytes=sha256.ComputeHash(System.Text.Encoding.UTF8.GetBytes(saltPass));
            return System.Convert.ToBase64String(bytes);
        }
    }
}
```

5. Here is the github repo link :
   Vilnius_University_LT/Second_Semester/object_oriented_programming/c#_final at main · nayemhasan45/Vilnius_University_LT (github.com)

6. 

That’s all for my report. Thank you.