**Name: Rimsha Fiaz**

**Roll no: BS-DFCS-FA19-1036**

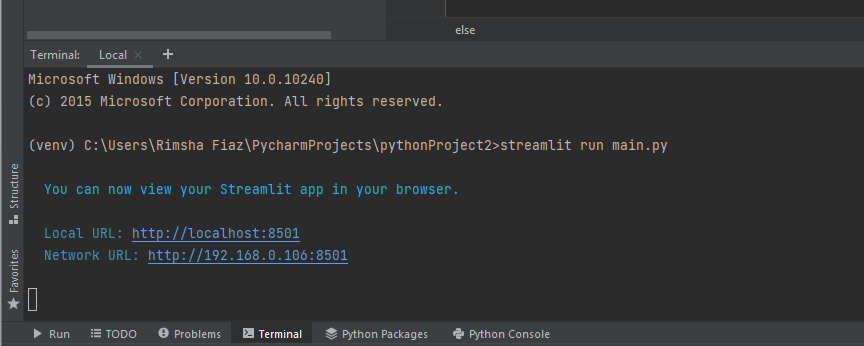
**SEMESTER: 4TH**

**Final Project Code**

**Code:**

import uuid  
import hashlib  
import streamlit as st  
  
def hash\_password(password):  
 # uuid is used to generate a random number of the specified password  
 salt = uuid.uuid4().hex  
 return hashlib.sha256(salt.encode() + password.encode()).hexdigest() + ':' + salt  
  
def check\_password(hashed\_password, user\_password):  
 password, salt = hashed\_password.split(':')  
 return password == hashlib.sha256(salt.encode() + user\_password.encode()).hexdigest()  
  
new\_pass = st.text\_input('Please enter a password: ')  
hashed\_password = hash\_password(new\_pass)  
st.write('The string to store in the db is: ' + hashed\_password)  
old\_pass = st.text\_input('Now please enter the password again to check: ')  
  
if check\_password(hashed\_password, old\_pass):  
 st.write('You entered the right password')  
else:  
 st.write('Passwords do not match')

**Output:**



**Streamlit view:**

**Link:**

[**http://localhost:8501/**](http://localhost:8501/)

**screenshot:**

