

Assignment 1 Report

Question 1

- **Requirements for each task in this section**

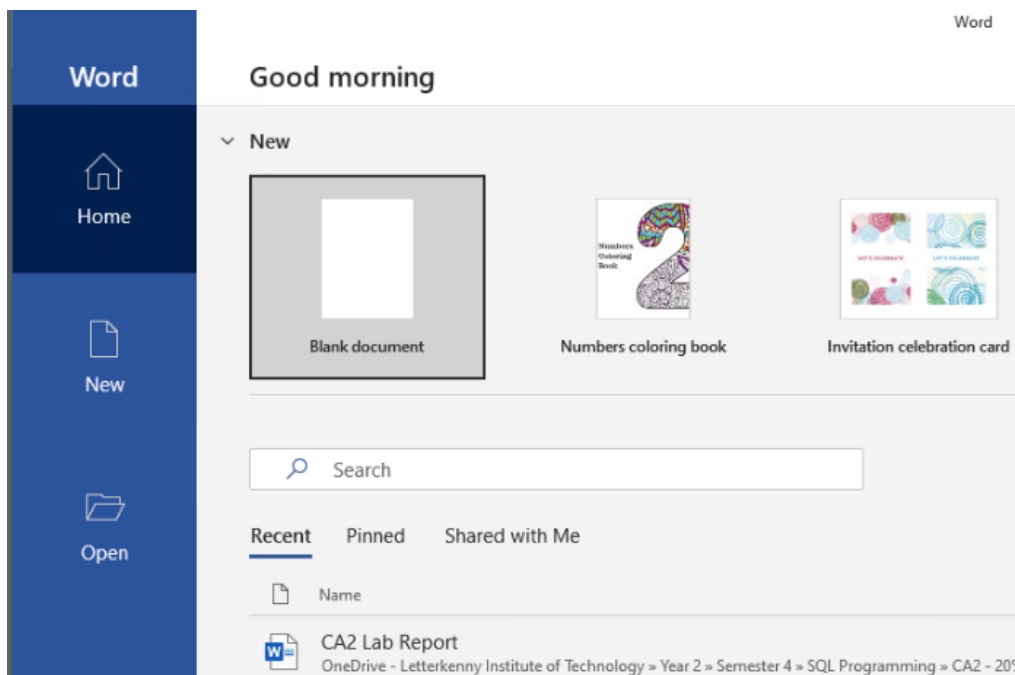
1. Write a script that opens a news website and a word document.
2. Write a script that deletes files from temporary internet files.

1.1: Step-by-Step configuration/implementation

- On the first line, I used the start command to open internet explorer and searched the news website using the URL of that website (BBC) which opens the website on the internet explorer. On the Second line, I used the start command to start WinWord which starts the Microsoft word application. On the third line, I used a pause command, so I could see if my code was working properly or not.

1.2: Screenshots

```
C:\Users\L00158616\OneDrive - Letterkenny Institute of Technology\Year 2\Semester 4\Automation\Assignment 1>start "iexplore.exe" http://www.bbc.com
C:\Users\L00158616\OneDrive - Letterkenny Institute of Technology\Year 2\Semester 4\Automation\Assignment 1>start winword
C:\Users\L00158616\OneDrive - Letterkenny Institute of Technology\Year 2\Semester 4\Automation\Assignment 1>pause
Press any key to continue . . .
```



2.1: Step-by-Step configuration/implementation

- On the first line, I used the command `DEL /F /S /Q %Temp%` which deletes the contents of the temp files and folders on the for windows. On the second line, I used the pause command to see the output of the command on the first line and as well, to see if my code is working properly or not.

2.2: Screenshots

```
C:\Users\L00158616\OneDrive - Letterkenny Institute of Technology\Year 2\Semester 4\Automation\Assignment 1>DEL /F /S /Q C:\Users\L00158~1\AppData\Local\Temp
C:\Users\L00158~1\AppData\Local\Temp\af4ecb42-9330-40dc-93c3-0157eb021e1f.tmp
The process cannot access the file because it is being used by another process.
Deleted file - C:\Users\L00158~1\AppData\Local\Temp\cv_debug.log
C:\Users\L00158~1\AppData\Local\Temp\df20ab57-f97b-4775-a53a-4a5372d17aeb.tmp
The process cannot access the file because it is being used by another process.

C:\Users\L00158616\OneDrive - Letterkenny Institute of Technology\Year 2\Semester 4\Automation\Assignment 1>pause
Press any key to continue . . .
```

Question 2

- **Requirements for each task in this section**
1. Write a Program in which the user must enter a first name, last name, username, email ID and password. Check the password to see if it meets password requirements. Display a message if it doesn't. Save the password in excel or notepad. Also hide the password when being entered.
 2. Ask the user to log in, using the same username and password in part 1. After 3 attempts, the user must be blocked for 2 minutes. Don't allow the user to login for the next minute. If a user attempts, show a message that your password is blocked with a message as 'Unauthorised attempt'.

1.1: Step-by-Step configuration/implementation

- To do this question, I first asked the user for 4 inputs like first name and last name etc. For the password validation method, I checked every character in the password that the user gives to see if it meets the password requirements given in the question like if it contains a number or capital letter etc. I also displayed a message if the password didn't meet the requirements. Also, if the password

was valid using the method and it returned true, I wrote it to a file called Passwords.txt.

1.2: Screen Shots

```
def isValidPassword(passwordIn):
    special_chars = {'!','@','#','$','%','&','*','(',')','_','/'}
    valid = True

    #Checking to see if any word in password
    #contains any special characters
    if not any(char in special_chars for char in passwordIn):
        print("The Password does not contain any special characters")
        valid = False

    #Checking to see if any word in password
    #contains a number
    if not any(char.isdigit() for char in passwordIn):
        print("The Password does not contain at least 1 number")
        valid = False

    #Checking to see if any word in the password
    #has a capital letter
    if not any(char.isupper() for char in passwordIn):
        print("The Password does not contain at least 1 capital letter")
        valid = False

    if valid:
        return valid

#A program where the user must enter a first name, last name, username
# email ID and password
fname = input("Enter your first name: ")
lname = input("Enter your last name: ")
username = input("Enter your username: ")
emailID = input("Enter your emailID: ")

#Hiding the input from the user using getpass
password = getpass("Enter your password: ")

#Adding a counter for every time password in entered
counter += 1

#If the counter is equal to 3
if counter == 3:
    #User is blocked for 2 minutes
    time.sleep(120)

if(isValidPassword(password)):
    print("Password is valid")
    #Saving the password to the notepad file
    with open('Passwords.txt', 'w') as f:
        f.write(password + '\n')
else:
    print("Invalid Password")
```

```
Enter your first name: daniel
Enter your last name: gallagher
Enter your username: dsdsdsds
Enter your emailID: dsdsdsdsds
Enter your password:
Password is valid
```

2.1 Step-by-Step configuration/implementation

For this question, I first added a while loop where the user is asked for information in part 1. Then I added a counter every time the user entered their password. If the user entered their password more than 3 times, I block the user for 2 minutes using the sleep command.

2.2: Screen Shots

```
while(counter != 3):
    #A program where the user must enter a first name,
    # email ID and password
    fname = input("Enter your first name: ")
    lname = input("Enter your last name: ")
    username = input("Enter your username: ")
    emailID = input("Enter your emailID: ")

    #Hiding the input from the user using getpass
    password = getpass("Enter your password: ")

    #Adding a counter for every time password in entered
    counter += 1

    #If the counter is equal to 3
    if counter == 3:
        #User is blocked for 2 minutes
        time.sleep(120)
```

```
Enter your username: a
Enter your emailID: a
Enter your password:
The Password does not contain any special characters
The Password does not contain at least 1 number
The Password does not contain at least 1 capital letter
Invalid Password
Enter your first name: a
Enter your last name: a
Enter your username: a
Enter your emailID: a
Enter your password:

```

