



Department: Computer Science

Course Lecturers: Dr. Pius Onobhayedo and Mr. Bello Moses Eromosele

Course Code: CSC 201

Course Title: Computer Programming I

Mini Project

Using the various concepts (functions, arrays, pointers, strings, data types, control structures, reading/writing to and from files, exceptions etc) you were introduced to in class; you are to create a **Result Management System** where only authorized users can view and update students' results.

Criteria

- The system should allow access to only authorized users.
- The system should provide users with options to navigate the software
- The system should allow upper and lower case for the navigation options provided
- Users should be able to update students' scores
- Users should be able to view all results
- Users should be able to search for individual record
- Users should be able to store an individual record in a text file
- Students' records should be stored in a text file
- Usernames and passwords should be stored in a text file

Programming Language Choice: C++

Due Date: 16th February, 2022 9:00pm

Note: This is a group Assignment

The project is worth 10% of the overall mark for the course.

SAMPLE OF PROGRAM OUTPUT

```
Select C:\Users\hp\Desktop\Group Project\Student Rec.exe

Pan-Atlantic University
Result Management System

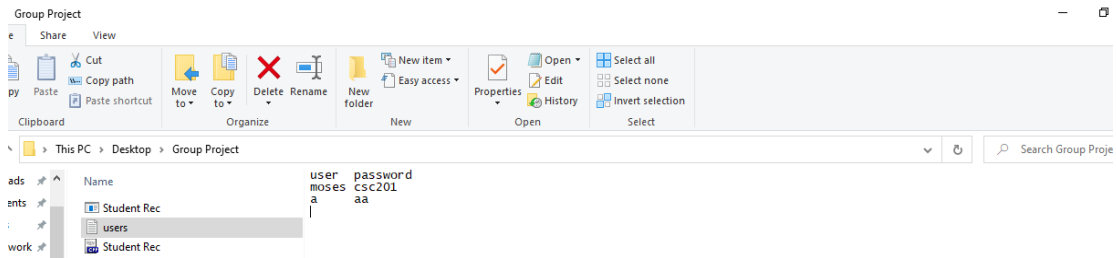
Provide Your Login Details
Enter Username : moses
Enter Password : csc205
Invalid Username and Password
Kindly re-enter a valid Username and Password

Enter Username : moses
Enter Password : csc201

Welcome moses

MAIN MENU
To SEARCH for a Student's Result --- Press F
To UPDATE a Student's Result --- Press U
To SAVE a Student's Result to File --- Press P
To VIEW ALL Results --- Press A
To EXIT the Program --- Press E

Enter an Option
```



```
C:\Users\hp\Desktop\Group Project\Student Rec.exe
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
F
SEARCH RECORDS
Enter Student's Matriculation Number :SST/2019/0004
Student Name      Chimaje Agada
Matric No         SST/2019/0004
CSC201            83
CSC205            49
MTH201            40
MTH205            36
GST201            74
GPA               2.6
MAIN MENU
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
F
SEARCH RECORDS
Enter Student's Matriculation Number :SST/2002/00003
No such Matriculation Number exist
MAIN MENU
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
F
SEARCH RECORDS
Enter Student's Matriculation Number :_

C:\Users\hp\Desktop\Group Project\Student Rec.exe
To Search for a Student's Result Press F
To Update a Student's Result Press U
To Print a Student's Result to File P
To View all Results Press A
To Exit the Program Press E

Enter an Option
a
Student Name      Matric No      CSC201  CSC205  MTH201  MTH205  GST201  GPA
Kenenna EGBUNA    SST/2019/0001    84      90      38      85      97      4
Anjolaoluwa OLOWOKERE SST/2019/0002    91      75      34      55      87      3.6
Anjolaoluwa JUBA  SST/2019/0003    66      81      62      87      47      4
Chimaje Agada     SST/2019/0004    83      49      40      36      74      2.6
Abba Ali-Concern  SST/2019/0005    74      80      31      33      80      3
Oluwapese ALO     SST/2019/0006    66      82      78      62      70      4.6
Ogechukwu ATA     SST/2019/0007    61      58      70      95      61      4.2
Fareed Bello      SST/2019/0008    41      31      98      50      60      2.6
Nwanne EGBUNA     SST/2019/0009    62      50      64      98      97      4.2
Sophia EZEH       SST/2019/0010    64      30      39      96      65      2.6
Jeffrey IBEZIM    SST/2019/0011    66      40      60      93      87      3.8
Jesuslayomi Adewale SST/2019/0012    74      45      38      77      71      3.4
Kaobimidi IWELUMO SST/2019/0013    87      43      84      83      88      4.2
Oyindamola LEWU   SST/2019/0014    45      81      62      50      97      3.8
Adanna NED-ONUOHA SST/2019/0015    42      36      71      70      41      2.4
Ayomilala MWANI   SST/2019/0016    69      78      84      99      53      4.4
Sobechukwu OBIAGA SST/2019/0017    40      93      92      75      72      4.2
Chukwudi OFOMA    SST/2019/0018    89      31      59      89      91      3.6
Carlton OGBOLU    SST/2019/0019    94      64      42      80      63      3.8
Chidubem OGBUEFI  SST/2019/0020    58      58      74      47      81      3.6
Lotanna OKEKE     SST/2019/0021    65      88      52      72      74      4.4
Francis OKOCHA-OJEAH SST/2019/0022    95      67      67      55      94      4.2
Fadlulah OLUOSHEKUN SST/2019/0023    80      54      63      99      54      4
Anderson PEPPLLE  SST/2019/0024    71      79      64      35      72      3.8
Fatima Tswana     SST/2019/0025    76      93      44      47      38      2.6
Chidiebube UGMUNMEZE SST/2019/0026    30      80      39      43      68      2
David Ikwuegbu    SST/2019/0027    84      81      88      97      68      4.8
George UWAGBALE   SST/2019/0028    78      66      88      34      81      3.8
Mukhtar MAIDOKI   SST/2019/0029    49      69      62      71      84      4
Farug SODIA       SST/2019/0030    82      38      58      57      67      3
Chetachukwu OKONKWO SST/2019/0031    92      67      41      66      45      3.2
Fadokemi ADEBAYO  SST/2019/0032    71      60      53      62      94      4.2
Chinwendu Nweje   SST/2019/0033    36      98      60      42      90      3
Keisha Martins    SST/2019/0034    82      72      95      79      68      4.8
Oluwanifemi OYEWOLE SST/2019/0035    85      99      70      43      75      4.2
```

```
C:\Users\hp\Desktop\Group Project\Student Rec.exe
F
SEARCH RECORDS
Enter Student's Matriculation Number :SST/2019/0003
Student Name   Anjolaoluwa JUBA
Matric No      SST/2019/0003
CSC201  66
CSC205  81
MTH201  62
MTH205  87
GST201  47

GPA      4
MAIN MENU
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
U
UPDATE RECORD
Enter Student's Matriculation Number :SST/2019/0003
Student Name   Anjolaoluwa JUBA
Matric No      SST/2019/0003
CSC201  66
Update CSC201 score
Enter Score :70
CSC205  81
Update CSC205 score
Enter Score :X56
Invalid Value
CSC205  81
Update CSC205 score
Enter Score :89
MTH201  62
Update MTH201 score
Enter Score :62
MTH205  87
Update MTH205 score
Enter Score :87
GST201  47
Update GST201 score
Enter Score :50
```

```
C:\Users\hp\Desktop\Group Project\Student Rec.exe
MAIN MENU
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
U
UPDATE RECORD
Enter Student's Matriculation Number :SST/2019/0003
Student Name   Anjolaoluwa JUBA
Matric No      SST/2019/0003
CSC201  66
Update CSC201 score
Enter Score :70
CSC205  81
Update CSC205 score
Enter Score :X56
Invalid Value
CSC205  81
Update CSC205 score
Enter Score :89
MTH201  62
Update MTH201 score
Enter Score :62
MTH205  87
Update MTH205 score
Enter Score :87
GST201  47
Update GST201 score
Enter Score :50
Previous GPA    4
Current GPA     4.4
Record Upadted and written to file
MAIN MENU
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
```

```
C:\Users\hp\Desktop\Group Project\Student Rec.exe
Previous GPA      4
Current GPA      4.4
Record Upadted and written to file
MAIN MENU
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
A
DISPLAY ALL RECORDS
Student Name      Matric No      CSC201  CSC205  MTH201  MTH205  GST201  GPA
Kenenna EGBUNA    SST/2019/0001      84      90      38      85      97      4
Anjolaoluwa OLOWOKERE SST/2019/0002      91      75      34      55      87      3.6
Anjolaoluwa JUBA   SST/2019/0003      70      89      62      87      50      4.4
Chimaje Agada      SST/2019/0004      83      49      40      36      74      2.6
Abba Ali-Concern   SST/2019/0005      74      80      31      33      80      3
Oluwapese ALO      SST/2019/0006      66      82      78      62      70      4.6
Ogechukwu ATA      SST/2019/0007      61      58      70      95      61      4.2
Fareed Bello       SST/2019/0008      41      31      98      50      60      2.6
Nwanne EGBUNA      SST/2019/0009      62      50      64      98      97      4.2
Sophia EZEH        SST/2019/0010      64      30      39      96      65      2.6
Jeffrey IBEZIM      SST/2019/0011      66      40      60      93      87      3.8
Jesulayomi Adewale SST/2019/0012      74      45      38      77      71      3.4
Kaobimdi IWELUMO    SST/2019/0013      87      43      84      83      88      4.2
Oyindamola LEWU     SST/2019/0014      45      81      62      50      97      3.8
Adanna NED-ONUOHA   SST/2019/0015      42      36      71      70      41      2.4
Ayoimilala NWANI    SST/2019/0016      69      78      84      99      53      4.4
Sobechukwu OBIAGA   SST/2019/0017      40      93      92      75      72      4.2
Chukwudi OGOMA      SST/2019/0018      89      31      59      89      91      3.6
Carlton OGBOLU      SST/2019/0019      94      64      42      80      63      3.8
Chidubem OGBUEFI    SST/2019/0020      58      58      74      47      81      3.6
Lotanna OKEKE       SST/2019/0021      65      88      52      72      74      4.4
Francis OKOCHA-OJEAH SST/2019/0022      95      67      67      55      94      4.2
Fadlulah OLUSHEKUN SST/2019/0023      80      54      63      99      54      4
Anderson PEPPLLE     SST/2019/0024      71      79      64      35      72      3.8
Fatima Tswanya      SST/2019/0025      76      93      44      47      38      2.6
Chidiebube UGWUNMEZE SST/2019/0026      30      80      39      43      68      2
David Ikwuegbu       SST/2019/0027      84      81      88      97      68      4.8
George UWAGBALE      SST/2019/0028      78      66      88      34      81      3.8
Mukhtar MAIDOKI     SST/2019/0029      49      69      62      71      84      4
Faruq SODIA         SST/2019/0030      82      38      58      57      67      3
```

```
C:\Users\hp\Desktop\Group Project\Student Rec.exe
MAIN MENU
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
P
PRINT RESULT TO FILE
Enter Student's Matriculation Number :SST/2019/0003
Student Name      Anjolaoluwa JUBA
Matric No         SST/2019/0003
CSC201  70
CSC205  89
MTH201  62
MTH205  87
GST201  50

GPA      4.4
Record written to file with filenameSST/2019/0003.txt
MAIN MENU
To SEARCH for a Student's Result Press F
To UPDATE a Student's Result Press U
To SAVE a Student's Result to File P
To VIEW ALL Results Press A
To EXIT the Program Press E

Enter an Option
```

ct

View									
Cut	Copy path	Paste shortcut	Move to	Copy to	Delete	Rename	New folder	New item	Easy access
Organize			New			Properties			
						Open			
						Select all			
						Select none			
						Invert selection			
						Select			

s PC > Desktop > Group Project									
Name	name	Mat no	CSC201	CSC205	MTH201	MTH203	GST201	GPA	
Student Rec	Kenerina EGBUNA		SST/2019/0001	84	90	38	85	97	4
Student Rec	Anjolaoluwa OLOWOKERE		SST/2019/0002	91	75	34	55	87	3.6
students	Anjolaoluwa TUBA		SST/2019/0003	66	81	62	87	47	4
users	Chimahe Agada		SST/2019/0004	83	49	40	36	74	2.6
exc	Abba Ali-Concern		SST/2019/0005	74	80	31	33	80	3
exc	Oluwapese ALO		SST/2019/0006	66	82	78	62	70	4.6
Sttt	Ogechukwu ATA		SST/2019/0007	61	58	70	95	61	4.2
Sttt	Fareed Bello		SST/2019/0008	41	31	98	50	60	2.6
result	Nwanne EGBUNA		SST/2019/0009	62	50	64	98	97	4.2
result	Sophia EZEH		SST/2019/0010	64	30	39	96	65	2.6
	Jeffrey IBEZIM		SST/2019/0011	66	40	60	93	87	3.8
	Jesulayomi Adewale		SST/2019/0012	74	45	38	77	71	3.4
	Kaobimdi IWELUMO		SST/2019/0013	87	43	84	83	88	4.2
	Oyindamola LEWU		SST/2019/0014	45	81	62	50	97	3.8
	Adanna NED-ONUOHA		SST/2019/0015	42	36	71	70	41	2.4
	Ayomilala NWANI		SST/2019/0016	69	78	84	99	53	4.4
	Sobechukwu OBIAGA		SST/2019/0017	40	93	92	75	72	4.2
	Chukwudi OFOMA		SST/2019/0018	89	31	59	89	91	3.6
	Carlton OGBOLU		SST/2019/0019	94	64	42	80	63	3.8
	Chidubem OGBUEFI		SST/2019/0020	58	58	74	47	81	3.6
	Lotanna OKEKE		SST/2019/0021	65	88	52	72	74	4.4
	Francis OKOCHA-OJEAH		SST/2019/0022	95	67	67	55	94	4.2
	Fadlulah OLUSHEKUN		SST/2019/0023	80	54	63	99	54	4
	Anderson PEPPL		SST/2019/0024	71	79	64	35	72	3.8
	Fatima Tswariya		SST/2019/0025	76	93	44	47	38	2.6
	Chidiebube UGWUNWEZE		SST/2019/0026	30	80	39	43	68	2
	David Ikwegbu		SST/2019/0027	84	81	88	97	68	4.8
	George UWAGBALE		SST/2019/0028	78	66	88	34	81	3.8
	Mukhtar MAIDOKI		SST/2019/0029	49	69	62	71	84	4
	Faruq SODIA		SST/2019/0030	82	38	58	57	67	3
	Chetachukwu OKONKWO		SST/2019/0031	92	67	41	66	45	3.2
	Fadekemi ADEBAYO		SST/2019/0032	71	60	53	62	94	4.2
	Chinwendu Nweje		SST/2019/0033	36	98	60	42	90	3
	Keisha Martins		SST/2019/0034	82	72	95	79	68	4.8
	Oluwanifemi OYEWOLE		SST/2019/0035	85	99	70	43	75	4.2
	Chidubem Asika		SST/2019/0036	74	58	31	79	64	3.4
	Anameti IMOHI		SST/2019/0037	65	41	66	88	46	3.2
	toluwanmi aluko		SST/2019/0038	91	52	35	49	50	2.6
	Justin Akinuli		SST/2019/0039	51	63	90	39	59	3

S/N	NAME	GROUP
1	Chimaje Agada	1
2	Fareed Bello	
3	Fadekemi ADEBAYO	
4	David Ikwuegbu	
5	Anjolaoluwa JUBA	
6	Nwanne EGBUNA	2
7	Adanna NED-ONUOHA	
8	Jesulayomi Adewale	
9	Chetachukwu OKONKWO	
10	Mukhtar MAIDOKI	
11	Chikaodi Agorua	3
12	Anderson PEPPLE	
13	Abba Ali-Concern	
14	Fadlulah OLUSHEKUN	
15	George UWAGBALE	
16	Francis OKOCHA-OJEAH	4
17	Lotanna OKEKE	
18	Oyindamola LEWU	
19	Kaobimdi IWELUMO	
20	Toluwanimi Aluko	
21	Ayomilala NWANI	5
22	Anjolaoluwa OLOWOKERE	
23	Chidiebube UGWUNWEZE	
24	Ogechukwu ATA	
25	Sophia EZEH	
26	Oluwapese ALO	6
27	Zulqarnain MURITALA	
28	Keisha Martins	
29	Fatima Tswanya	
30	Faruq SODIA	
31	Jeffrey IBEZIM	7
32	Chidubem OGBUEFI	
33	Carlton OGBOLU	
34	Chidubem Asika	
35	Chinwendu Nweje	

36	Chukwudi OFOMA	8
37	Sobechukwu OBIAGA	
38	Justin Akinuli	
39	Anameti UMOH	
40	Kenenna EGBUNA	
41	Oluwanifemi OYEWOLE	

