

Computer Programming (B&E) - Spring 2018

Assignment 5 - Neon Evaluation Report

You are required to implement Evaluation Report module for Neon in which you are given a txt file containing students' data and this module will provide following functionality:

- 1- **Display grade sheet sorted by Total**, where Total is sum of marks earned in all the quizzes and assignments
- 2- **Search student by Roll Number**; this will display report (marks earned in all the quizzes and assignments) of a student in Computer Programming course
- 3- **Print Statistics**; this will print total, maximum, minimum and average marks of all the quizzes and assignments

Important:

- Submit separate .exe, .cpp and GradeSheet.txt files (Only one **RUNNING** file YourRollNumber.cpp that contains class, its implementation and the driver Program). **Do not submit .rar or .zip files.** There will be negative marking for submission of whole project
- Distribute your program into functions/tasks properly
- Best apply all the programming concepts/practices to implement this module

Note: Data file contains student's roll number, name, assignments and quizzes marks only. We are not saving midterm marks.

Required Output [10 Marks for exact flow only. Do not ask user for any input]:

-----Data						Read			from	
File-----										
//Add column total in the list below										
14L-4159	Tahir Ali	0	0	0	10	11	14	19		
14L-4222	Muhammad Ali	6	3	10	10	36	34	27	53	
14L-4241	Waleed Amjad	8	0	0	3	0	22	0	0	
14L-4290	Burhan Tahir	14	3	0	10	43	22	35	49	
14L-4401	Hassan Sohail	14	0	0	8	30	20	15	48	
14L-5867	Saad Ali	6	8	10	0	0	36	0	52	
14L-5868	Nisar Haider	0	5	10	10	0	21	0	52	
15L-4014	Neeha Batool	14	5	10	10	43	49	50	53	
15L-4019	Abubakar Javed	10	5	5	10	45	50	43	25	
15L-4023	Saad Sultan	14	5	10	10	43	51	48	55	
15L-4028	Hassaan Elahi	10	8	0	10	45	52	50	55	
15L-4048	Kamal Subhani	10	10	10	10	45	53	37	52	
15L-4050	Saad Ahmed	10	3	0	5	32	28	15	51	
15L-4068	Usman Usman	2	0	0	8	39	19	0	43	
15L-4083	Zaid Tariq	14	10	0	10	43	48	50	48	
15L-4084	Abdullah Siddiqui	14	10	10	10	43	53	48	55	

15L-4091	Saifullah	14	5	10	0	41	22	34	55	
15L-4102	Hashir Baig	14	5	10	10	45	52	48	55	
15L-4137	Usama Jawad		2	5	0	10	45	36	38	45
15L-4149	Haris Muneer		14	10	0	10	16	53	34	47
15L-4164	Humna Gul	6	5	0	8	45	47	33	55	
15L-4166	Talha Zubair	14	8	10	10	45	53	48	55	
15L-4184	Suleman Uzair		14	3	10	10	43	51	48	55
15L-4186	Hammad Farooq		14	3	10	10	43	53	23	55
15L-4193	Faizan Ahmed		10	3	0	8	27	18	9	25
15L-4204	Tarviha Fatima		10	3	0	8	43	32	32	53
15L-4205	Haziq Farooq		6	10	10	10	41	36	25	49
15L-4210	Saboor Elahi	14	3	10	8	45	53	33	45	
15L-4221	Muhammad Taha		8	10	10	10	43	53	48	53
15L-4228	Taha Shahid	10	0	10	8	39	11	18	29	
15L-4237	Zaki Ahmad	2	0	0	3	15	30	15	53	
15L-4248	Usama Akram		2	0	0	0	0	0	0	44
15L-4254	Hamza Majeed		4	0	0	5	0	0	0	47
15L-4255	Jamal Butt	6	8	0	8	38	14	29	45	
15L-4257	Sharjeel Mansha		10	8	0	10	43	41	26	48
15L-4261	Suleman Khalid		10	10	10	10	43	48	50	44
15L-4262	Rimsha Rimsha		6	3	10	0	41	46	0	37
15L-4264	Ali Nuaman	10	10	10	10	45	37	34	55	
15L-4265	Noor Ahmed	14	10	10	10	43	53	48	53	
15L-4281	Hamza Shariq		14	10	10	10	45	53	50	50
15L-4292	Farhan Shoukat		14	10	10	10	43	51	38	55
15L-4308	Arham Fatima		10	0	0	0	41	31	0	54
15L-4314	Khadija Asim	2	0	0	8	18	36	0	51	
15L-4321	Muhammad Awais		8	3	10	10	41	31	45	55
15L-4322	Abdullah Khan		14	3	10	8	43	12	22	53
15L-4323	Hassaan Maajid		10	5	10	10	39	8	0	53
15L-4327	Hanan Mehmood		10	9	0	10	45	37	18	52
15L-4352	Osama Osama		14	3	0	8	41	17	17	53
15L-5449	Anas Javed	10	0	0	8	29	21	23	50	

-----Sorted

List-----

//Here you will print above list including total but this time it will be sorted by total marks.

-----Student

Information-----

Enter Student Roll Number: //User enters 15L-1234

Student not found

-----Student
Information-----

Enter Student Roll Number: //User enters 15L-4023

Student Information:

Roll No: 15L-4023
 Name: Saad Sultan
 Quizzes Marks:

Q1: 14/14
 Q2: 5/10
 Q3: 10/10
 Q4: 10/10

Assignment Marks:

A1: 43/45
 A2: 51/53
 A3: 48/50
 A4: 55/55

Total: nnn/nnn

-----Class
Statistics-----

	Q1	Q2	Q3	Q4	A1	A2	A3
A4							
Total:	14	10	10	10	45	53	50
55							
Maximum : 14	10	10	10	45	53	50	55
Minimum: 2	0	0	0	0	0	0	0
Average: 10	5	6	8	36	35	27	25