



ASSIGNMENT (2)

1. Write a program that asks the class teacher to enter the names of 10 students along with their total marks. The program then filters and prints only the students who passed the exam (i.e. whose marks are above than or equal to 50).

Name	Total Mark
Aya Ahmed	60
Bassem Maged	68
Carol Emad	93
Dina Morad	35
Fady Shady	85
Mahmoud Ali	90
Nancy Ibrahim	28
Omar Khaled	50
Malak Hamdy	96
Youssef Yehia	76

Submit Reset

The students who passed the exam:	
Name	Total Mark
Aya Ahmed	60
Bassem Maged	68
Carol Emad	93
Fady Shady	85
Mahmoud Ali	90
Omar Khaled	50
Malak Hamdy	96
Youssef Yehia	76

2. Write a program that first asks a teacher to enter the number of students registered at a course. Then, the teacher enters the names of these students along with their marks obtained at two exams. The program prints the best mark (i.e. higher mark) obtained by each student.

Number of registered students:	
4	Submit

Name	Exam (1)	Exam (2)
Karim Mostafa	25	28
Seif Hassan	12	26
Joudy Sherif	18	18
Hana Taha	20	18

Submit

The best mark for each student:	
Name	Best Mark
Karim Mostafa	28
Seif Hassan	26
Joudy Sherif	18
Hana Taha	20

3. Write a program that defines an array which represents the students' marks. The user then inputs their marks, and at the end the program should print the average of these marks. The program also counts and prints the number of students whose marks are above average, as well as the number of students who failed. Show the output on the same webpage, not on another page. *Tip: use the `isset` function, and other array functions such as `array_sum`.*



← ↻ 🏠 🔍 Search or

Student ID	Total Mark
Student (1)	<input type="text" value="54"/>
Student (2)	<input type="text" value="36"/>
Student (3)	<input type="text" value="76"/>
Student (4)	<input type="text" value="40"/>
Student (5)	<input type="text" value="97"/>
<input type="button" value="Submit"/>	

← ↻ 🏠 🔍 Search or enter web address

Student ID	Total Mark
Student (1)	<input type="text" value="54"/>
Student (2)	<input type="text" value="36"/>
Student (3)	<input type="text" value="76"/>
Student (4)	<input type="text" value="40"/>
Student (5)	<input type="text" value="97"/>
<input type="button" value="Submit"/>	

Course Statistics:

The marks average is 60.6

Number of students who failed is 2

Number of students above average is 2

4. Write a program that asks the user to enter names of 5 students registered in a course, along with their marks of the 7th week exam, the 12th week exam, the attendance, and the final exam. The program calculates the total mark of each student and calculates the average of each exam, as shown:

← ↻ 🏠 🔍 Search or enter web ad... ☆ 👤 ...

Name	7th Week	12th Week	Attendance	Final Exam
Farida Khaled	<input type="text" value="24.5"/>	<input type="text" value="18.5"/>	<input type="text" value="9"/>	<input type="text" value="38"/>
Jomana Taher	<input type="text" value="16"/>	<input type="text" value="16.5"/>	<input type="text" value="8.5"/>	<input type="text" value="28"/>
Karma Hany	<input type="text" value="30"/>	<input type="text" value="19"/>	<input type="text" value="10"/>	<input type="text" value="37"/>
Mariam Yehia	<input type="text" value="27.5"/>	<input type="text" value="19"/>	<input type="text" value="8.5"/>	<input type="text" value="36.5"/>
Youssef Riad	<input type="text" value="18"/>	<input type="text" value="12"/>	<input type="text" value="8"/>	<input type="text" value="25"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>				

Grades Sheet:

Name	7th Week	12th Week	Attendance	Final Exam	Total Mark
Farida Khaled	24.5	18.5	9	38	90
Jomana Taher	16	16.5	8.5	28	69
Karma Hany	30	19	10	37	96
Mariam Yehia	27.5	19	8.5	36.5	91.5
Youssef Riad	18	12	8	25	63
AVERAGE	23.2	17	8.8	32.9	81.9

5. Twelve students are enrolled in the programming course, in which the user enters their marks of the 7th week exam, the 12th week exam, participation, and the final exam. Write a program that calculates and prints the total mark of the students (out of 100) as well as the corresponding letter grade based on the shown table:

95-100	90-94.9	85-89.9	80-84.9	75-79.9	70-74.9	65-69.9	60-64.9	55-59.9	50-54.9	0-49.9
A+	A	A-	B+	B	B-	C+	C	C-	D	F



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

Arab Academy for Science, Technology & Maritime Transport

COURSE: WEB PROGRAMMING

LECTURERS: DR. ALI ALLAM/DR. MARY WILLIAM/DR. AHMED FOUAD

TAs: MR. ALY/MR. AHMED/MR. KAREEM/MR. MOURIS/MR. YOUSSEF

7 th Week	12 th Week	Participation	Final Exam
26	13	10	34
27	16	8	35
29	18	10	38
18	11	6	20
15	10	6	20
10	5	3	12
28	18	9	37
20	15	8	30
22	18	8	32
17	6	7	28
18	19	9	30
15	15	8	25
Submit			

7 th Week	12 th Week	Participation	Final Exam	Total Mark	Grade
26	13	10	34	83	B+
27	16	8	35	86	A-
29	18	10	38	95	A+
18	11	6	20	55	C-
15	10	6	20	51	D
10	5	3	12	30	F
28	18	9	37	92	A
20	15	8	30	73	B-
22	18	8	32	80	B+
17	6	7	28	58	C-
18	19	9	30	76	B
15	15	8	25	63	C

6. Design a signup form that asks the user to submit their personal data. Then, the program displays the profile page as the template shown below. Note: the user picks the background color to customize the profile page template.

Search or enter web address	
Personal Data:	
Full Name	<input type="text" value="Layla Amr Nabeel"/>
Gender	<input type="radio"/> Male <input checked="" type="radio"/> Female
Residence	<input type="text" value="Citizen"/>
Languages	<input checked="" type="checkbox"/> Arabic <input checked="" type="checkbox"/> English <input type="checkbox"/> French
Interests	<div><div>Sports</div><div>Reading</div><div>Fishing</div><div>Camping</div><div>Traveling</div></div>
Favorite Color	<input type="text" value="#E67E22"/>
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>

Search or enter	
Name: Layla Amr Nabeel	
Gender: Female	
Residence Type: Citizen	
Languages:	
<ul style="list-style-type: none">ArabicEnglish	
Interests:	
<ul style="list-style-type: none">SportsCampingTraveling	



7. Write a program that asks the user to enter the IDs of the students registered in each of two different courses: Programming and Multimedia. The program prints out the students who are registered at both courses (i.e. intersection between the two arrays).

Programming	Multimedia
<input type="text" value="261004321"/>	<input type="text" value="251001234"/>
<input type="text" value="251001234"/>	<input type="text" value="241001111"/>
<input type="text" value="251008888"/>	<input type="text" value="251005555"/>
<input type="text" value="261007777"/>	<input type="text" value="251001111"/>
<input type="text" value="261006666"/>	<input type="text" value="261008888"/>
<input type="text" value="251005555"/>	<input type="text" value="241008888"/>
<input type="text" value="251004444"/>	<input type="text" value="261007777"/>
<input type="text" value="251003333"/>	<input type="text"/>
<input type="text" value="261009999"/>	<input type="text"/>
<input type="text" value="261008888"/>	<input type="text"/>
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>

Students who are registered in both courses:

- 251001234
- 261007777
- 251005555
- 261008888

8. An online bookstore keeps separate lists for physical books and electronic books. The system creates one combined list to display all available books to customers (i.e. merge the two arrays and filter/remove the empty values).

Physical Books	Electronic Books
<input type="text" value="Data Structures"/>	<input type="text" value="E-Commerce Basics"/>
<input type="text" value="Databases Management"/>	<input type="text" value="Digital Marketing"/>
<input type="text" value="Operating Systems"/>	<input type="text" value="PHP Web Development"/>
<input type="text" value="Computer Networks"/>	<input type="text" value="Data Science"/>
<input type="text" value="Software Engineering"/>	<input type="text" value="Artificial Intelligence"/>
<input type="text"/>	<input type="text" value="CSS Web Design"/>
<input type="text"/>	<input type="text" value="Cyber Security"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>

Available books in the bookstore:

1. Data Structures
2. Databases Management
3. Operating Systems
4. Computer Networks
5. Software Engineering
6. E-Commerce Basics
7. Digital Marketing
8. PHP Web Development
9. Data Science
10. Artificial Intelligence
11. CSS Web Design
12. Cyber Security



9. An online learning platform stores the shown names below of students registered at a course in one array. A second array, which is entered by ticking the checkboxes, contains the names of students who have already submitted their final project. The program should determine which students have not submitted their final project yet (i.e. the difference between the two arrays).

Registered Students	Submission Status
Malak Amr	<input type="checkbox"/>
Anas Samy	<input type="checkbox"/>
Farida Waheed	<input checked="" type="checkbox"/>
Hana Shokry	<input checked="" type="checkbox"/>
Sama Sobhy	<input type="checkbox"/>
Farah Khaled	<input checked="" type="checkbox"/>
Seif Fawzy	<input type="checkbox"/>

[View Missing Submissions](#)

Registered Students	Submission Status
Malak Amr	<input type="checkbox"/>
Anas Samy	<input type="checkbox"/>
Farida Waheed	<input type="checkbox"/>
Hana Shokry	<input type="checkbox"/>
Sama Sobhy	<input type="checkbox"/>
Farah Khaled	<input type="checkbox"/>
Seif Fawzy	<input type="checkbox"/>

[View Missing Submissions](#)

Unsubmitted Projects:

1. Malak Amr
2. Anas Samy
3. Sama Sobhy
4. Seif Fawzy