



COMSATS University Islamabad Sahiwal Campus (Department of Computer Science)

Course Title:	Programming Fundamentals or: Dr. Javed Ferzund				Course Code:	CSC103	Credit Hours:	4
Course Instructor:					Programme Name: BSCS			
Semester:	2nd	Batch:	SP22	Section:	A&B	Date:	20/01/2023	
Time Allowed:	150 Minutes				Maximum Mar	ks:	40	
Student's Name:	Ho	inzal	a A	Keel.	Reg. No. CUI/	SP22 - 85	-C5-004	/SW

Important Instructions / Guidelines:

Read the question paper carefully and answer the questions according to their statements.

Mobile phones are not allowed. Calculators must not have any data/equations etc. in their memory.

Terminal Examination FALL-22 (Part 2)

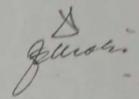
Note: All questions carry equal marks.

- 1. Create an array to store height of 50 students. Write the code to find the maximum height value in the created array.
- Create a 10*5 2-dimensional array to store the marks of 10 students obtained in 5 subjects.
 Rows represent the students and columns represent the subjects. Calculate the sum of marks of all subjects for each student. [hint: cell[0][0] contains the marks of 1st student in the 1st subject]
- Write a function that takes an integer number as argument and returns the sum of its digits.
- 4. Write a function that takes 2 parameters: first parameter is a number and second parameter is power of the number which user wants to take. The function calculates the power of number and returns the result.
 - 5. Write an example to differentiate Pass by Value and Pass by Reference in functions.
- V6. Define a structure Student having data members name, age and program. Create two Student variables and assign values to its data members by getting from user.
- 7. Define a structure Room having data members id, type and capacity. Create an array of 5

 Rooms and assign values to the data members of each Room using for loop.
- 8. Write a function that takes array of Room as argument and returns the Room id with maximum capacity.



COMSATS University Islamabad Sahiwal Campus (Department of Computer Science)



Course Title:	B. Carrier B. Carrier C. Carrier				Course Code:	CSC103		Credit Hours:	4
Course Instructor:					Programme Name: BSCS				
Semester:	2nd	Batch:	FA21	Section:	D Dat		Date:	04/07/2022	
Time Allowed:	130 Minutes				Maximum Marks:			35	
Student's Name:					Reg. No. CUI/			/SWL	

Important Instructions / Guidelines:

Read the question paper carefully and answer the questions according to their statements.

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Terminal Examination Spring-22 (Part 2)

- Write a program to calculate and display the sum of even numbers present in an array of 10 elements.
- 2. Create a 4*4 matrix using 2-dimensional array and display the values of its elements except the diagonal values.
- 3. Write a function that takes an integer number as argument and returns the factorial of that number.
- 4. Write a function that takes 2 parameters: first parameter is a number and second parameter is power of the number which user wants to take. The function calculates the power of number and returns the result.
- 5. Define a structure Person having data members name, age and profession. Create two Person variables and assign values to the data members.
- 6. Define a structure Book having data members title, author and price. Create an array of 5 Books and assign values to the data members.
- 7. Write a function that takes array of Book as argument and returns the total price of all books present in the array.

