Design and Analysis of Algorithm Lab Worksheet 02

- 1. Create a program to find the product of two numbers and print the output.
- 2. Write a C program to compute the quotient of two integers and display the result (integer division).
- 3. Develop a program to calculate the remainder of division between two integers.
- Write a program to calculate the area of a rectangle given its length and width as 10 and
 Then update the program to accept the length and height as user inputs and process the activity.
- 5. Create a C program to calculate the area of a circle based on its radius. Use the formula: Area = $\pi * r * r$ (where π is approximately 3.14159).
- 6. Write a program to calculate the total cost of a purchase, including tax. Give the item price and tax rate as user inputs (in percentage).
- 7. Create a C program to convert a given number of minutes into hours and minutes. For example, 145 minutes should be displayed as 2 hours and 25 minutes.
- 8. Write a program to find the sum of all elements in an integer array. Enter the array elements as User inputs.
- 9. Write a C program to find the maximum element and minimum element in an integer array.
- 10. Develop a C program to get a summation of similar index values in 2 integer arrays and store it in new array. Display the summated array elements at screen.

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