

1.(a) Write a C Program to calculate the area of triangle using the formula $\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$ where $s = (a+b+c)/2$.

(b) Write a C program, which takes two integer operands and one operator from the user, performs the operation and then prints the result. Consider the operators +, -, *, /, % and use Switch Statement.

2(a) Write a C Program to find the largest of three numbers using ternary operator

(b)) Write a C program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.

3(a) Write a C Program to swap two numbers without using a temporary variable.

(b)) Write a C program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.

4(a) Write a C program to find the roots of a quadratic equation

(b) Write a C program to input two m x n matrices, check the compatibility and perform addition and multiplication of them.

5(a)) Write a C program to find the sum of individual digits of a positive integer and find the reverse of the given number.

(b) Write a C Program to enter a decimal number, and calculate and display the binary equivalent of that number.

6(a) Write a C Program to print the multiplication table of a given number n up to a given value, where n is entered by the user

(b) Write a C Program to check whether the given number is Armstrong number or not.

7(a) Write a C program to interchange the largest and smallest numbers in the array.

(b) write C programs that use both recursive and non-recursive Functions To find the GCD greatest common divisor of two given integers.

8(a) write C programs that use both recursive and non-recursive Functions To find the factorial of a given integer

(b) Write a C Program to find Fibonacci sequence.

9(a) . write C programs that use both recursive and non-recursive Functions using To find the GCD greatest common divisor of two given integers.

(b) Write a C program to interchange the largest and smallest numbers in the array.

10(a) Write C programs illustrating call by value and call by reference concepts.

(b) Write a C program to input two m x n matrices, check the compatibility and perform addition and multiplication of them.