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1. Write C functions to calculate the area of a) circle b) square c) rectangle d) parallelogram.
2. Write a function to swap the values of two variables.
3. Write a program to perform calculator operations using functions.
4. Write a function that receives marks received by a student in 5 subjects and returns the average and percentage of these marks to main function and print the results in main.
5. Input a five digit positive number through the keyboard. Write functions to calculate the sum of digits of the number.
   1. Without using recursion
   2. Using recursion

Call both functions from main function and print the results in main.

1. Write a function ‘distance’ that calculate the distance between two points (x1, y1) and (x2, y2). All numbers and return values should be of type double. Observe the error message generated by the compiler when the prototype is not given.
2. Write a recursive function to calculate the factorial of a positive integer.
3. Build a calculator to perform basic arithmetic operations (+, - , \*, /) using C functions.

Sample Output: Enter any two digits: 2 3

Enter the operator: +

The sum is 5

1. Input a positive integer through the keyboard; write a function to find the binary equivalent of this number using recursion.
2. Write a program using function to calculate x to the power of y, where y can be either negative or positive.