**Revision Questions on arrays, functions, pointer and constructures**

1. Write a program that swaps the values of two integers using pointers.
2. Write a program that takes an array and returns the sum of its elements using a function.
3. Write a program with a class that uses a constructor to initialize the length and width of a rectangle and calculates its area.
4. Write a program that finds the maximum of two numbers using a function and pointers.
5. Write a program with a class that uses a constructor to set a student's name and age and a member function to print the details.
6. Write a program to demonstrate pointer arithmetic by incrementing a pointer and accessing the next element of an array.
7. Write a program that demonstrates the use of a pointer to a pointer (double pointer)
8. Write a program that calculates the factorial of a number using a recursive function.
9. Write a program that returns the sum of two numbers using a function with pass-by-reference.
10. Write a program that returns the sum of two numbers using a function with pass-by-value.